Aspire 5251/5551G/5551 Series
Service Guide

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Revision History

Please refer to the table below for the updates made on Aspire 5251/5551G/5551 service guides.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

NOTE: This symbol where placed in the Service Guide designates a component that should be recycled according to the local regulations.

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Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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Table of Contents

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System Specifications

Features

Below is a brief summary of the computer's many features:

NOTE: Some features not available on all models.

Operating System

- Genuine Windows® 7 Home Premium 64-bit
- Genuine Windows® 7 Home Basic 64-bit

CPU/Chipset

- AMD V Series processor V120 (512 KB L2 cache, 2.20 GHz, 3.2GT/s, 25 W) (Aspire 5251)
- AMD M880G Chipset (Aspire 5251)
- AMD Phenom™ II triple-core mobile processor N830 (1.5 MB L2 cache, 2.10 GHz, 3.6GT/s, 35 W) (Aspire 5551/5551G)
- AMD Turion™ II dual-core mobile processor P520/N530 (2 MB L2 cache, 2.30/2.50 GHz, 3.6GT/s, 25/35 W) (Aspire 5551/5551G)
- AMD Athlon™ II dual-core processor P320/N330 (1 MB L2 cache, 2.10/2.30 GHz, 3.2GT/s, 25/35 W) (Aspire 5551/5551G)
- AMD RS880M and SB820M Chipset (Aspire 5251/5551/5551G)

System Memory

- Dual-channel DDR3 SDRAM support:
  - Up to 4 GB of DDR3 1066 MHz memory, upgradeable to 8 GB using two soDIMM modules (for 64-bit OS)

Display

- 15.6" HD 1366 x 768 pixel resolution, high-brightness (200-nit) Acer CineCrystal™ LED-backlit TFT LCD
- 16:9 aspect ratio

Graphics

- ATI Radeon™ HD 4250 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 2 (UVD2), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 4.1, Microsoft® DirectX® 10.1 (Aspire 5251/5551)
- ATI Mobility Radeon™ HD 5650 with 1024 MB of dedicated DDR3 VRAM, supporting Unified Video Decoder (UVD), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11, OpenGL® 3.1, OpenCL™ 1.1 (Aspire 5551G)
- ATI Mobility Radeon™ HD 5470 with 512 MB of dedicated DDR3 VRAM, supporting Unified Video Decoder (UVD), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11, OpenGL ® 3.1, OpenCL™ 1.1 (Aspire 5551G)

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- Dual independent display support (Aspire 5251/5551/5551G)
- 16.7 million colors (Aspire 5251/5551/5551G)
- External resolution / refresh rates:
  - VGA port up to 2560 x 1440: 75 Hz (Aspire 5251/5551)
  - VGA port up to 2048 x 1536: 85 Hz (Aspire 5551G)
  - HDMI™ port up to 1920 x 1080: 60 Hz (Aspire 5251/5551/5551G)
- MPEG-2/DVD decoding (Aspire 5251/5551/5551G)
- VC-1 and H.264 (AVC) decoding (Aspire 5551G)
- WMV9 (VC-1) and H.264 (AVC) decoding (Aspire 5251/5551)
- Microsoft® DirectX Video Acceleration (DXVA) application interface (API) (Aspire 5551G)
- HDMI™ (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support (Aspire 5251/5551/5551G)

Storage Subsystem

- 160/250/320/500/640 GB or larger hard disk drive
- Multi-in-1 card reader, supporting:
  - Secure Digital™ (SD) Card, MultiMediaCard (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)

Audio

- Two built-in Acer 3DSonic™ stereo speakers
- High-definition audio support
- Built-in microphone
- MS-Sound compatible

Storage

- 160/250/320/500/640 GB or larger hard disk drive
- Multi-in-1 card reader, supporting Secure Digital™ (SD) Card, MultiMediaCard (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)

Optical Media Drive

- 8X DVD-Super Multi double-layer drive (Aspire 5251):
  - Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM
  - Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM
- 4X Blu-ray Disc™/DVD-Super Multi double-layer drive (Aspire 5551):
  - Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 8X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 8X DVD-RW, 8X DVD+RW, 5X DVD-RAM, 4X BD-ROM, 4X BD-R, 2X BD-RE, 4X BD-ROM DL, 4X BD-R DL, 2X BD-RE DL
  - Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM, 4X DVD+R DL, 4X DVD-R DL
- 8X DVD-Super Multi double-layer drive (Aspire 5551):·
  - Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM

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- Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM

Communication

- Acer Video Conference, featuring:
  - Acer Crystal Eye 1.3 MP webcam, 1280 x 1024 resolution
- WLAN:
  - Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™
  - Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™
  - Supporting Acer SignalUp™ wireless technology
- WPAN:
  - Bluetooth® 3.0+HS
  - Bluetooth® 2.1+EDR
- LAN: Gigabit Ethernet, Wake-on-LAN ready

Privacy control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Dimensions and weight

- 381 (W) x 253 (D) x 25/34 (H) mm (15 x 9.9 x 0.98/1.3 inches)2.6 kg (5.74 lbs.)10 with 6-cell battery pack

Power subsystem

- ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes
- 3-pin 65 W AC adapter:
  - 108 (W) x 46 (D) x 29.5 (H) mm (4.25 x 1.81 x 1.16 inches)
  - 225 g (.49 lbs.)10 with 180 cm DC cable
- 48.8 W 4400 mAh 6-cell Li-ion standard battery pack
- Estimated battery life: up to 3 hours and 20 minutes
- ENERGY STAR®

Special keys and controls

- 103-/104-/107-key keyboard, with inverted "T" cursor layout, 1.8 mm (minimum) key travel
- Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip
- 11 function keys, four cursor keys, two Windows® keys, hotkey controls, independent standard numeric keypad, international language support
- Media keys (printed on keyboard): play/pause, stop, previous, next

I/O interface

- Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)
- Three USB 2.0 ports

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- HDMI™ port with HDCP support
- External display (VGA) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Optional Items

- 1 GB / 2 GB / 4 GB DDR3 1066 MHz soDIMM module
- 6-cell Li-ion battery pack
- 3-pin 65 W AC adapter
- External USB 56K modem

Environment

- Temperature:
  - Operating: 5 °C to 35 °C
  - Non-operating: -20 °C to 65 °C
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

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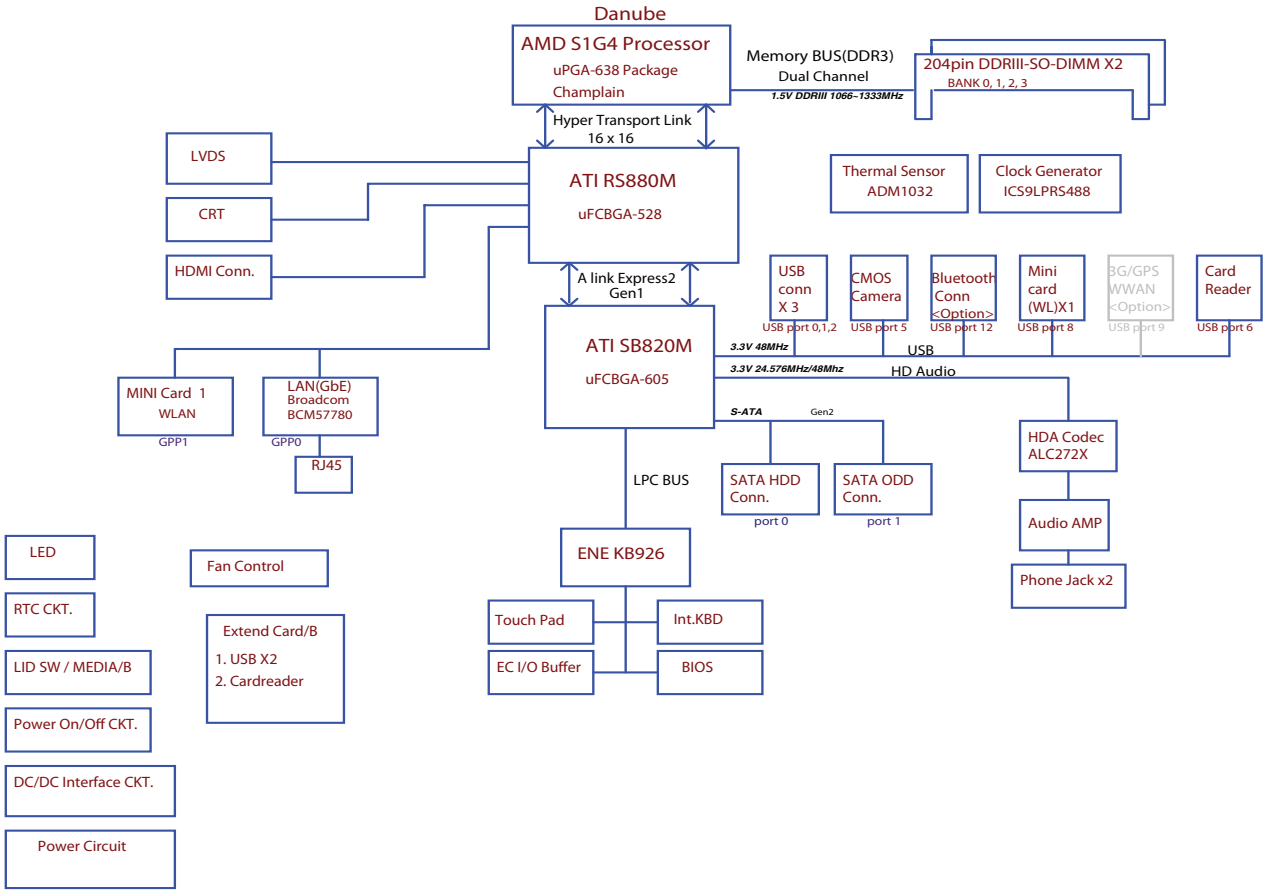
System Block Diagram



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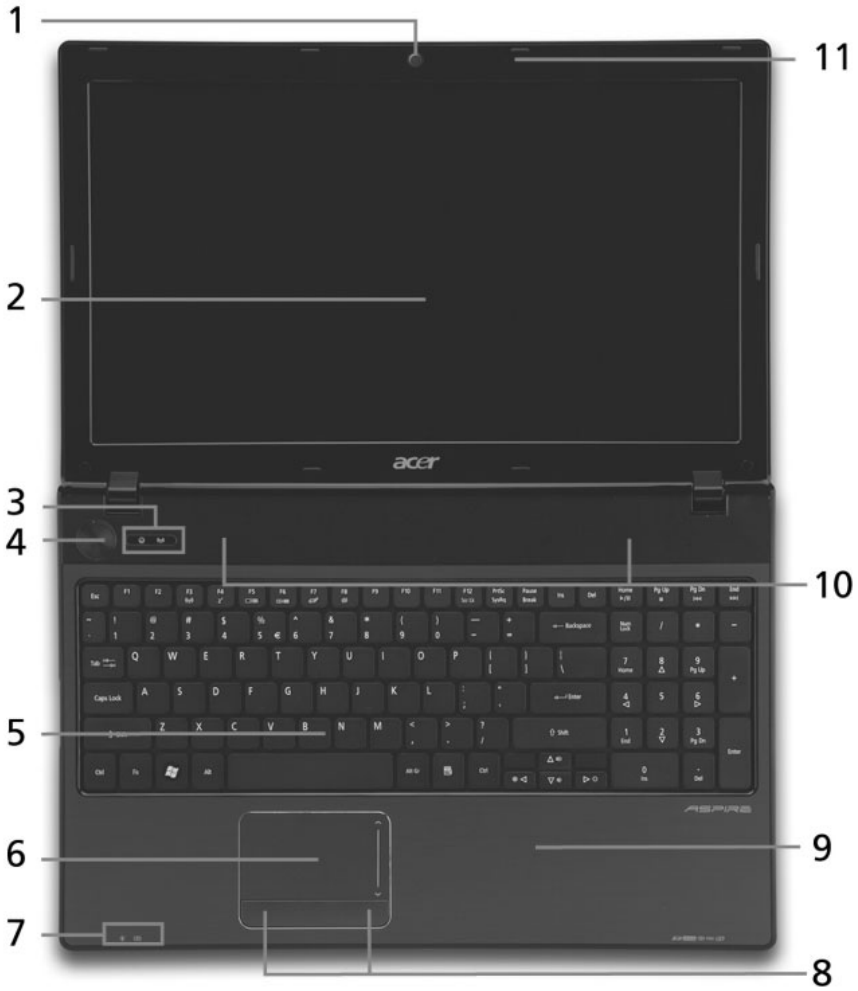
Your Acer Notebook tour

Front View



No.	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication (for selected models).
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
3		HDD	Indicates when the hard disk drive is active.
		Communication indicator	Indicates the computer's wireless connectivitoy device status.
4		Power button	Turns the computer on and off.
5		Keyboard	For entering data into your computer.
6		TouchPad	Touch-sensitive pointing device which functions like a computer mouse.

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No.	Icon	Item	Description
7		Power[1]	Indicates the computer's power status.
		Battery[1]	Indicates the computer's battery status. **1.** Charging: The light shows amber when the battery is charging. **2.** Fully charged: The light shows blue when in AC mode.
8		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
9		Palmrest	Comfortable support area for your hands when you use the computer.
10		Speakers	Left and right speakers deliver stereo audio output.
11		Microphone	Internal microphone for recording sound.

NOTE: [1] The front panel indicators are visible even when the computer cover is closed.

Closed Front View

No.	Icon	Item	Description
1		Multi-in-1 card reader	Accepts Secure Digital (SD), MultiMediaCard (MMC), Memory Stick (MS), Memory Stick PRO (MS PRO), xDPicture Card (xD). **NOTE:** Push to remove/install the card. Only one card can operate at any given time.

Left View

No.	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter
2		Ventilation slots	Enable the computer to stay cool, even after prolonged use.
3		External display (VGA) port	Connects to a display device (e.g. external monitor, LCD projector).
4		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
5	HDMI	HDMI	Connect to HDMI devices

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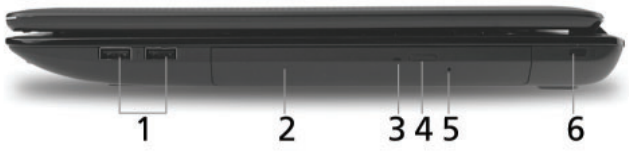
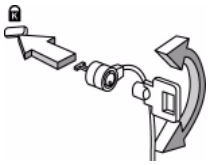
No.	Icon	Item	Description
6		USB 2.0 ports	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
7		Microphone-in jack	Accepts input from external microphones.
		Headphones/ speaker/line-out jack	Connects to audio line-out devices (e.g. speakers, headphones).

Right View



No.	Icon	Item	Description
1		USB 2.0 ports	Connect to USB 2.0 devices (e.g. USB mouse, USB camera).
2		Optical drive	Internal optical drive; accepts CDs or DVDs.
3		Optical disk access indicator	Lights up when the optical drive is active.
4		Optical drive eject button	Ejects the optical disk from the drive.
5		Emergency eject hole	Ejects the optical drive tray when the computer is turned off. **Note:** Insert a paper clip into the emergency eject hole to eject the optical drive tray when the computer is off.
6		Kensington lock slot 	Connects to a Kensington-compatible computer security lock. **Note:** Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

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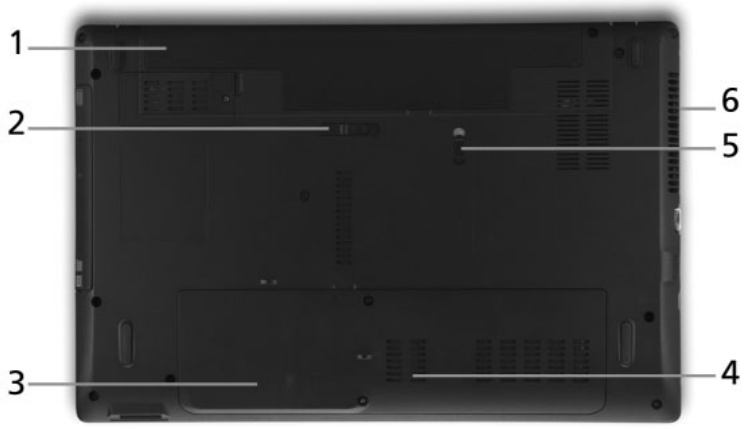
Bottom View



No.	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery release latch	Releases the battery for removal.
3		Hard disk bay	Houses the computer's hard disk (secured with screws).
4		Memory compartment	Houses the computer's main memory.
5		Battery lock	Locks the battery in position.
6		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. **Note**: Do not cover or obstruct the fan opening.

Indicators

The computer has several easy-to-read status indicators.

Icon	Function	Description
	Power	Indicates the computer's power status.
	Battery	Indicates the computer's battery status. **NOTE:** 1. **Charging:** The light shows amber when the battery is charging. 2. **Fully charged:** The light shows green when in AC mode.
	HDD	Indicates when the hard disk drive is active.
	Communication indicator	Indicates the computer’s wireless connectivitoy device status.

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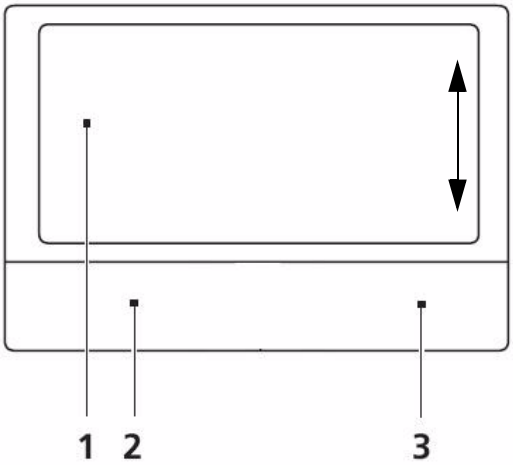
TouchPad Basics

The following items show you how to use the TouchPad:



- Move your finger across the TouchPad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the TouchPad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the TouchPad is the same as clicking the left button.

Function	Left Button (2)	Right Button (3)	Main TouchPad (1)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).
Select	Click once.		Tap once.
Drag	Click and hold, then use finger on the TouchPad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the TouchPad on the second tap and drag the cursor.
Access context menu		Click once.	

NOTE: When using the TouchPad, keep it - and your fingers - dry and clean. The TouchPad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the TouchPad's responsiveness.

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Using the Keyboard

The keyboard has full-sized keys and an embedded numeric keypad, separate cursor, lock, Windows, function and special keys.

Lock Keys and embedded numeric keypad

The keyboard has two lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Scroll Lock < Fn + F12 >	When Scroll Lock is on, the contents of a text window scroll without moving the cursor.
Num Lock	When Num Lock is on, the embedded keypad is in numeric mode.

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Windows Keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
Windows key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: **<⊞>:** Open or close the Start menu **<⊞> + <D>:** Display the desktop **<⊞> + <E>:** Open Windows Explore **<⊞> + <F>:** Search for a file or folder **<⊞> + <G>:** Cycle through Sidebar gadgets **<⊞> + <L>:** Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) **<⊞> + <M>:** Minimizes all windows **<⊞> + <R>:** Open the Run dialog box **<⊞> + <T>:** Cycle through programs on the taskbar **<⊞> + <U>:** Open Ease of Access Center **<⊞> + <X>:** Open Windows Mobility Center **<⊞> + <BREAK>:** Display the System Properties dialog box **<⊞> + <SHIFT+M>:** Restore minimized windows to the desktop **<⊞> + <TAB>:** Cycle through programs on the taskbar by using Windows Flip 3-D **<⊞> + <SPACEBAR>:** Bring all gadgets to the front and select Windows Sidebar **<CTRL> + <⊞> + <F>:** Search for computers (if you are on a network) **<CTRL> + <⊞> + <TAB>:** Use the arrow keys to cycle through programs on the taskbar by using Windows Flip 3-D **Note:** Depending on your edition of Windows 7, some shortcuts may not function as described.
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

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Hot Keys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hot keys, press and hold the <**Fn>** key before pressing the other key in the hotkey combination.

Hotkey	Icon	Function	Description
<Fn> + <F3>		Communication key	Enables / disables the computer's communication devices. (Communication devices may vary by configuration.)
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Display Off	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the internal touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁>		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases the sound volume.
<Fn> + <▽>		Volume down	Decreases the sound volume.
<Fn> + <Home>		Play/Pause	Play or pause a selected media file.
<Fn> + <Pg Up>		Stop	Stop playing the selected media file.
<Fn> + <Pg Dn>		Previous	Return to the previous media file.
<Fn> + <End>		Next	Jump to the next media file.

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Hardware Specifications and Configurations

Platform

Item	Specification

CPU	• AMD Family 10h Champlain Processor S1g4 Package
	  • AMD Turion™ II Dual-Core Mobile Processor
	  • AMD Athlon™ II Dual-Core Processor for Notebook PCs
	  • AMD Sempron™ Processor for Notebook PCs
	  • AMD Phenom™ II Dual-Core Processor
	  • AMD V-Series Processor

Chipsets	• AMD RS880M North Bridge uFCBGA-528p • AMD SB820M South Bridge uFCBGA-605p • ATI Mobility Radeon™ HD 5650/5470 GPU with 1GB/512M DDR3 VRAM • ENE KB926 for Keyboard Controller, Battery management Unit, and RTC. • Realtek RTS5160 for Card Reader, 5 in 1 controller. • Realtek ALC272-X for High Definition Audio Codec. • Broadcom BCM57780A1KMLG for Giga LAN

Processor Specifications

Item	CPU Speed	Cores	Hyper Transport	Cache Size	Package	Core Voltage	Acer P/N
AAN330	2.23 GHz	2	1.8 GHz	1 MB	S1g4	35 W	
AAP320	2.1 GHz	2	1.8 GHz	1 MB	S1g4	25 W	
AAP320_BR	2.1 GHz	2	1.8 GHz	1 MB	S1g4	25 W	
AMDV120	2.2 GHz	1	1.8 GHz	512 KB	S1g4	25 W	
APN830	2.1 GHz	3	1.8 GHz	1.5 MB	S1g4	35 W	
APN930	2.0 GHz	4	1.8 GHz	2 MB	S1g4	35 W	
ATN530	2.5 GHz	2	1.8 GHz	2 MB	S1g4	35 W	
ATP520	2.3 GHz	2	1.8 GHz	2 MB	S1g4	25 W	
ATP520_BR	2.3 GHz	2	1.8 GHz	2 MB	S1g4	25 W	

CPU Fan True Value Table (Tj = 100 DIS)

CPU Temp (°C) Core 0	Fan Speed (rpm)	SPL Spec (dBA)
50	2500	28
56	2900	31
63	3200	34
70	3600	37
80	4000	40
95	4000	40

- Throttling 50%: On=95°C, Off=85°C
- OS Shutdown: 100°C
- H/W Shutdown: 92°C

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CPU Fan True Value Table (Tj = 100 UMA)

CPU Temp (°C) Core 0	Fan Speed (rpm)	SPL Spec (dBA)
50	2500	28
56	2900	31
63	3200	34
70	3600	37
80	4000	40
95	4000	40

- Throttling 50%: On=95°C, Off=85°C
- OS Shutdown: 100°C
- H/W Shutdown: 92°C

Fan Acoustic Specifications

Operation Mode	Application	SPL dBA	Loudness (Sone)	Tone (dB)
Fan off	Windows Idle (HDD random seek)	N/A	• 20~3.99kHz less than or equal to: 0.035 • 4K~20kHz less than or equal to: 0.035	7
Fan 1	Windows Idle	28	N/A	7
Fan 2	Windows Idle, HDD spinning	31	N/A	7
Fan 3	Play Movie (read from HDD), Play TV (TV tuner sku)	34	N/A	7
Fan 4	3DMark06,Prime95, Prime95+Play TV(TV tuner sku), acer screen saver, HDD spinning	37	N/A	7
Fan 5	TAT100% or Thermanow100%,3DMark06, at ambient 35C, HDD spinning	40	N/A	7
ODD (Reference)	ODM's test software (Sequential) with Fan 4	43	N/A	N/A

NOTE: Tone:20~399Hz refers to slope of Ecma-074, 400~20K Hz < 7 Prominence ratio. No pattern occurred on Prominence vs. time diagram.

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BIOS

Item	Specification
BIOS vendor	Insyde BIOS
BIOS ROM type	Flash
Features	• 16Mbit(2MB) CMOS Serial Flash ROM • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBIOS 2.3, PCI2.2. • Refer to Acer BIOS specification. • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support Y2K solution • Support WinFlash • Wake on LAN from S3 • Wake on LAN form S4 in AC mode • System information

System Memory

Item	Specification
Memory size	8GB maximum
DIMM socket number	2
Supports memory size per socket	4GB
Supports DIMM type	204-pin +1.5V DDRIII
Supports DIMM Speed	800/1066/1333 MHz
Supports DIMM voltage	1.5V

Memory Combinations

Slot 1	Slot 2	Total Memory
0MB	1024MB	1024MB
0MB	2048MB	2048MB
0MB	4096MB	4096MB
1024MB	0MB	1024MB
1024MB	1024MB	2048MB
1024MB	2048MB	3072MB
2048MB	0MB	2048MB
2048MB	1024MB	3072MB
2048MB	2048MB	4096MB
2048MB	4096MB	6144MB
4096MB	4096MB	8192MB

NOTE: Above table lists some system memory configurations. You may combine DIMMs with various capacities to form other combinations. In the above table, the configuration of slot 1 and slot 2 could be reversed.

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Onboard LAN

Item	Specification
Vendor/model name	Broadcom 57780KMLG for GIGA LAN
Features	• Integrated 10/100/10000BASE-T transceiver • Automatic MDI crossover function • PCIe V1.1 compliant • 10/100/10000BASE-T full -duplex/half -duplex MAC • Receive side scaling(RSS) for multicore processors • Complies with IEEE 802.3, 802.3u, 802.3ab, and 802.1p • Wake on LAN (WOL) support meeting the ACPI requirements • Statistics for SNMP MIB II, Ethernet-like MIB, and Ethernet MIB (IEEE 802.3z, Clause 30) • Self-boot feature, utilizing smaller EEPROM size with ability to use on-chip memory • Supports iSCSI bootte • PCI Express CLKREQ support • Integrated switching regulator for improved power consumption • IPv4 and IPv6 large send offload and checksum offload(LSO/TCO)

Wireless LAN

Item	Specification
Vendor/model name	• Foxconn Wireless LAN Atheros HB93 2x2 BGN (HM) • QMI Wireless LAN Atheros HB93 2x2 BGN (HM) EM306 • Foxconn Wireless LAN Broadcomm 43225 2x2 BGN (HM) T77H103.00 • Foxconn Wireless LAN Atheros HB97 2x2 BGN (HM) • Liteon Wireless LAN Atheris HB97 2x2 BGN (HM) WN6603AH • Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM) • Foxconn Wireless LAN Broadcom 4312H BG (HM) • Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10
Protocol	802.11b/g/n
Interface	PCI-Express
Antenna	1 X 2

Battery

Item	Specification
	6 Cell
Vendor & model name	SANYO/SONY/PANASONIC/SAMSUNG/SIMPLO AS2009A
Battery Type	Li-ion
Pack capacity	4400 mAh
Normal Voltage	2.2 Ah
Package configuration	3S2P

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System Power Management

ACPI mode	Specification
Mech. Off (G3)	All devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disk may be power managed in this state.
Sleeping State (S3)	CPU set power down VGA Suspend PCMCIA Suspend Audio Power Down Hard Disk Power Down CD-ROM Power Down Super I/O Low Power mode
Sleeping State (S4)	Also called Hibernate state. System Saves all system states and data onto disk prior to power off the whole system.

Power and Keyboard Controller

Item	Specification
Controller	ENE KB926
Total number of keypads	99-/100-/103-key keyboard
Windows logo key	Yes
Hotkeys	See “Hot Keys” on page 13.

Hard Disk Drive Interface

Item	Specification				
Vendor/model name	Seagate	HGST	Toshiba	Western Digital	Samsung
Capacity (MB)	160, 250, 320, 500	160, 250, 320, 500	160, 250, 320, 500	160, 250, 320, 500, 640	160, 250, 320
Bytes per sector	512				
Data heads	2-4				
Drive Format					
Disks	1-2				
Spindle speed (RPM)	5400				
Performance Specifications					
Buffer size	8 MB				
Interface	SATA				
DC Power Requirements					
Voltage tolerance	5V ±5%				

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Super-Multi Drive Module

Item	Specification			
Vendor & model name	HLDS GT20N		Sony AD7580S	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (MB/sec)	Sustained: 3,600 KB/s (24x) max.	Sustained: 11.08 Mbytes/s (8x) max.	Sustained: 1,571 (typical)	Sustained: 10,993 (typical)
Buffer Memory	2 MB			
Interface	SATA			
Applicable disc formats	DVD-ROM: 4.7GB (Single Layer) 8.5GB (Dual Layer) DVD-R: 3.95GB (Ver. 1.0: read only) 4.7GB (Ver. 2.0 for Authoring: read only) 4.7GB (Ver. 2.1 for General: read & write) (DL) 8.5GB (Ver. 3.0) DVD-RW: 4.7GB (Ver. 1.2/ Rev 1.0, 2.0, 3.0) DVD-RAM: 1.46GB/side, 4.7GB/side (Ver. 2.2) DVD+R: 4.7GB (Ver. 1.3) (DL) 8.5GB (Ver. 1.1) DVD+RW: 4.7GB (Vol.1 Ver.1.3) CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc CD-ROM XA, CD-I, Photo-CD Multi-Session, Video CD CD-Audio Disc Mixed mode CD-ROM disc (data and audio) CD-Extra CD-Text CD-R (Conforming to “Orange Book Part 2”: read & write) CD-RW (Conforming to “Orange Book Part 3”: read & write)		DVD Read: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-Video, DVD-Audio, SACD (Hybrid), UDF DVD, DVD-R, DVD-R DL, DVD-R 3.95 GB, DVD-R Authoring, DVD-R Multi-Border, DVD-RW, DVD+R, DVD+R DL, DVD+R Multi-Session, DVD+RW, DVD-RAM V1.0, DVDRAM V2.0 & 2.1 &2.2. CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, CD-i Bridge, Video-CD (MPEG-1), Karaoke CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, itrax CD, CD-Text, UDF CD, CD-R, and CD-RW DVD Write: DVD Data & Video CD Read: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, Video- CD, CD-Text	
Loading mechanism	Drawer (Solenoid Open) Tact SW (Open) Emergency Release (draw open hole)			
Power Requirement				
Input Voltage	DC 5 V +/- 5%			

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VGA Chip

Item	Specification		
Vendor/model name	ATI Mobility Radeon™ HD 5650/5470 GPU		
Features	• On Board 1024MB(5650) / 512MB(5470) DDR3 Video RAM • PCI Express 2.1 x16 bus interface • DirectX® 11 support • OpenGL 3.2 support • Image quality enhancement technology • ATI Eyefinity multi-display technology • ATI Stream acceleration technology • ATI Avivo HD Video & Display technology • Certified drivers for Windows 7, Windows Vista, and Windows XP • Engine clock speed: 550 MHz / 750 MHz • Memory clock speed: 800 MHz • VGA output support • HDMI output Support		
Supported Resolutions	VGA	Aspire 5251/5551	• All resolutions up to 2456 x 1536: 60 Hz
		Aspire 5551G	• All resolutions up to 2048 x 1536: 85 Hz
	HDMI™	Aspire 5251/5551/5551G	• All resolutions up to 1920 x 1080: 60 Hz

LCD Display Resolutions

Resolution	Aspire 5251	Aspire 5551	Aspire 5551G
640x480p/60Hz 4:3	Yes	Yes	Yes
720x480p/60Hz 4:3	Yes	Yes	Yes
720x480p/60Hz 16:9	Yes	Yes	Yes
1280x720p/60Hz 16:9	Yes	Yes	Yes
1920x1080i/60Hz 16:9	Yes	Yes	Yes
1440x480i/60Hz 4:3	Yes	Yes	Yes
1440x480i/60Hz 16:9	Yes	Yes	Yes
1920x1080p/60Hz 16:9	Yes	Yes	Yes
720x576p/50Hz 4:3	Yes	Yes	Yes
720x576p/50Hz 16:9	Yes	Yes	Yes
1280x720p/50Hz 16:9	Yes	Yes	Yes
1920x1080i/50Hz 16:9	Yes	Yes	Yes
1440x576i/50Hz 4:3	Yes	Yes	Yes
1440x576i/50Hz 16:9	Yes	Yes	Yes
1920x1080p/50Hz 16:9	Yes	Yes	Yes
2048x1536/85 Hz 16:9	Yes	Yes	Yes
2560x1440/75 Hz 16:9	Yes	Yes	No

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LCD 15.6”

Item	Specification
Vendor/model name	AUO/CPT/CMO/Samsung/LCD/INL
Screen Diagonal (mm)	15.6 inches
Display resolution (pixels)	1366 x 768 WXGA Clare
Pixel Pitch	0.204 x 0.204
Display Mode	Normal
Typical White Luminance (cd/m^2) (also called Brightness)	220
Contrast Ratio	500 typical
Response Time (Optical Rise Time/Fall Time) msec	8
Luminance Uniformity	1.25 max
Electrical Interface	LVDS
Support Color	262K
Viewing Angle (up/down/right/ left)	15/35/45/45
Temperature Range (°C) Operating Storage (shipping)	0 to +50 -20 to +60

USB

Item	Specification
Chipset	• AMD RS880M North Bridge uFCBGA-528p • AMD SB820M South Bridge uFCBGA-605p
USB Compliancy Level	2.0
OHCI	
Numer of USB Ports	3
Location	Two on the right side, one on the left side
Serial Port Function Control	Enable/Disable by BIOS Setup

HDMI

Item	Specification
Version Number	
Connector Type	
Supported Resolutions	
Features	

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Card Reader

Item	Specification
Part Name	RealTek RT5160
Package	5-in-1 card reader
General Features	• Push-push type, with dummy card • Built-in 250mA Power MOS for memory card • Over Current Protection and Over Temperature Protection • Power saving • Power Down when no memory card is inserted • Power Idle (Selective Suspend) • USB2.0 Interface • Support both High-Speed (480 Mbps) and Full-Speed (12 Mbps) Data Transfer • Embedded High Speed/Full Speed Transceiver • Secure Digital/Multimedia Card Interface • Compliant with SD Memory Card Specification Version 2.0 • Compliant with Multimedia Card Specification Version 4.2 • Support High Speed SD 4-bit Data Transfer Mode (Up to 32 GB) • Support High Speed MMC 8-bit Data Transfer Mode (Up to 32 GB) • Support Write Protection Switch • Memory Stick Interface • Compliant with Memory Stick PRO Format Specification Version 1.x • Compliant with Memory Stick PRO-HG Duo Format Specification Version 1.x • Support 4-bit and 8-bit Parallel Data Transfer Mode • xD- Picture Card Interface • Compliant with xD-Picture Card Specification Version 1.2 (support multi-plane) • Support Hardware ECC (1-bit correction and 2-bits detection) Generation • Embedded Program memory and Data SRAM • Miscellaneous Functions • Realtek Driver • Windows 2000, Windows XP, Windows Vista Linux

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Audio Interface

Item	Specification
Chipset	Realtek ALC272-X
Features	• Meets performance and function requirements for Microsoft WLP 3.10, and stricter performance requirements for future WLP. • Two stereo DAC supports 16/20/24-bit PCM for two independent playbacks (multiple streaming). • Two stereo ADC supports 16/20/24-bit PCM format for two independent recording. • All DACs support independent 44.1k/48k/96k/192kHz sample rate. • All ADCs support independent 44.1k/48k/96k/192kHz sample rate. • Two independent SPDIF outputs support 16/20/24-bit format and 44.1k/48k/88.2k/96k/192kHz rate. • All analog jack ports except MONO, BEEP-IN and HP-OUT are stereo input and output retaking. • Supports line level mono output • Supports analog PCBEEP input, and features an integrated digital BEEP generator • Headphone amplifier on port-I (HP-OUT) is designed to drive output without external DC blocking capacitors • Supports EAPD (External Amplifier Power Down) control for external amplifier • 48-pin LQFP 'Green' package • WaveRT-based audio function driver for Windows Vista • EAX™ 1.0 & 2.0 compatible • Direct Sound 3D™ compatible • Emulation of 26sound environments to enhance gaming experience • Multi-band software equalizer and related tools are provided • Voice Cancellation and Key Shifting effect • Dynamic range control (expander, compressor and limiter) with adjustable parameters • Intuitive Configuration Panel (Realtek Audio Manager) to enhance user experience • Provides 10-foot GUI for easy menu navigation on Windows Media Center • Microphone Acoustic Echo Cancellation (AEC), Noise Suppression (NS), and Beam Forming(BF)technology for voice application • Smart multiple streaming operation • HDMI audio driver for AMD platform • Acer exclusive software features

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System Utilities

BIOS Setup Utility

The BIOS Setup Utility is a hardware configuration program built into your computer's BIOS (Basic Input/ Output System).

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run Setup. Please also refer to Chapter 4 Troubleshooting when problem arises.

To activate the BIOS Utility, press **F2** during POST (when "Press <F2> to enter Setup" message is prompted on the bottom of screen).

The default parameter of F12 Boot Menu is set to "disabled". If you want to change boot device without entering BIOS Setup Utility, please set the parameter to "enabled".

Press <F12> during POST to enter multi-boot menu. In this menu, user can change boot device without entering BIOS SETUP Utility.

Navigating the BIOS Utility

There are five menu options: Information, Main, Security, Boot, and Exit.

Follow these instructions:

- To choose a menu, use the left and right arrow keys.
- To choose an item, use the up and down arrow keys.
- To change the value of a parameter, press **F5** or **F6**.
- Press **Esc** to be prompted to exit the BIOS utility.
- In any menu, you can load default settings by pressing **F9**. You can also press **F10** to save any changes made and exit the BIOS Setup Utility.

NOTE: You can change the value of a parameter if it is enclosed in square brackets. Navigation keys for a particular menu are shown on the bottom of the screen. Help for parameters are found in the Item Specific Help part of the screen. Read this carefully when making changes to parameter values. **Please note that system information is subject to different models**.

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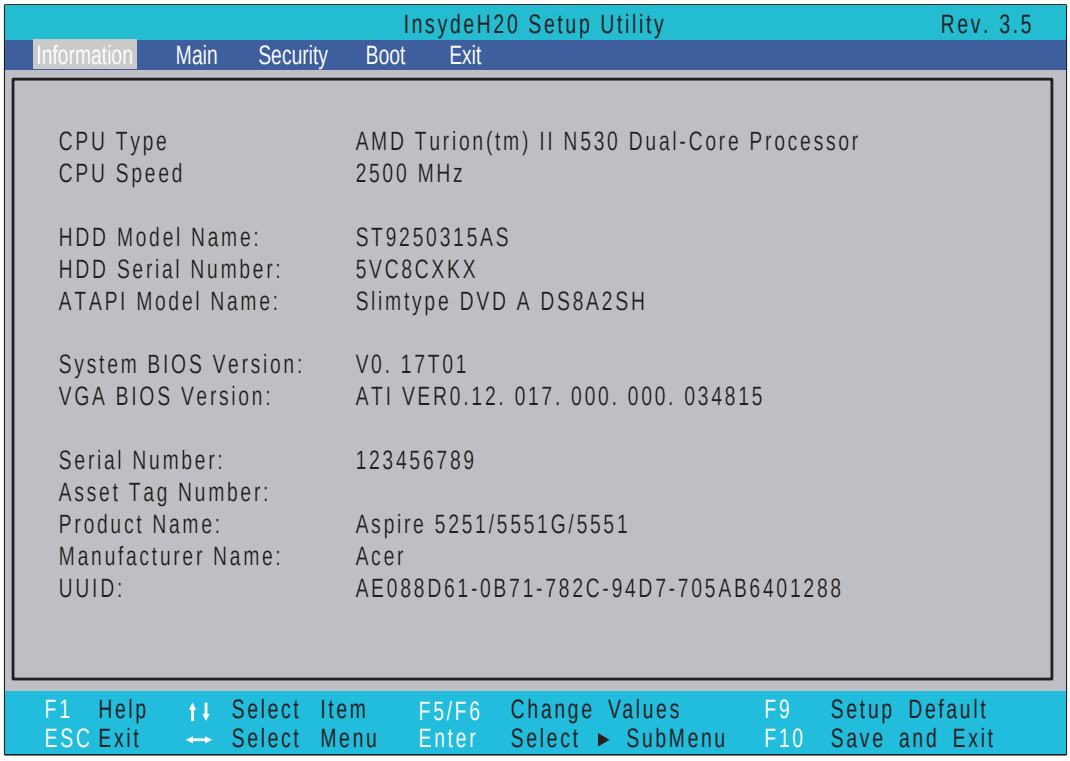
Aspire 5251/5551G/5551 BIOS

Information

The Information screen displays a summary of the computer hardware information.


InsydeH20 Setup Utility Rev. 3.5
Information Main Security Boot Exit
CPU Type AMD Turion(tm) II N530 Dual-Core Processor
CPU Speed 2500 MHz
HDD Model Name: ST9250315AS
HDD Serial Number: 5VC8CXKX
ATAPI Model Name: Slimtype DVD A DS8A2SH
System BIOS Version: V0. 17T01
VGA BIOS Version: ATI VER0.12. 017. 000. 000. 034815
Serial Number: 123456789
Asset Tag Number:
Product Name: Aspire 5251/5551G/5551
Manufacturer Name: Acer
UUID: AE088D61-0B71-782C-94D7-705AB6401288
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▶ SubMenu F10 Save and Exit

NOTE: The screen above is for your reference only. Actual values may differ according to model.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description
CPU Type	This field shows the CPU type and speed of the system.
CPU Speed	This field shows the speed of the CPU.
HDD Model Name	This field shows the model name of HDD installed in the system.
HDD Serial Number	This field displays the serial number of HDD installed in the system.
ATAPI Model Name	This field shows the model name of the Optical device installed in the system.
System BIOS Version	Displays system BIOS version.
VGA BIOS Version	This field displays the VGA firmware version of the system.
Serial Number	This field displays the serial number of this unit.
Asset Tag Number	This field displays the asset tag number of the system.
Product Name	This field shows product name of the system.
Manufacturer Name	This field displays the manufacturer of this system.
UUID	Universally Unique Identifier (UUID) is an identifier standard used in software construction, standardized by the Open Software Foundation (OSF) as part of the Distributed Computing Environment (DCE).

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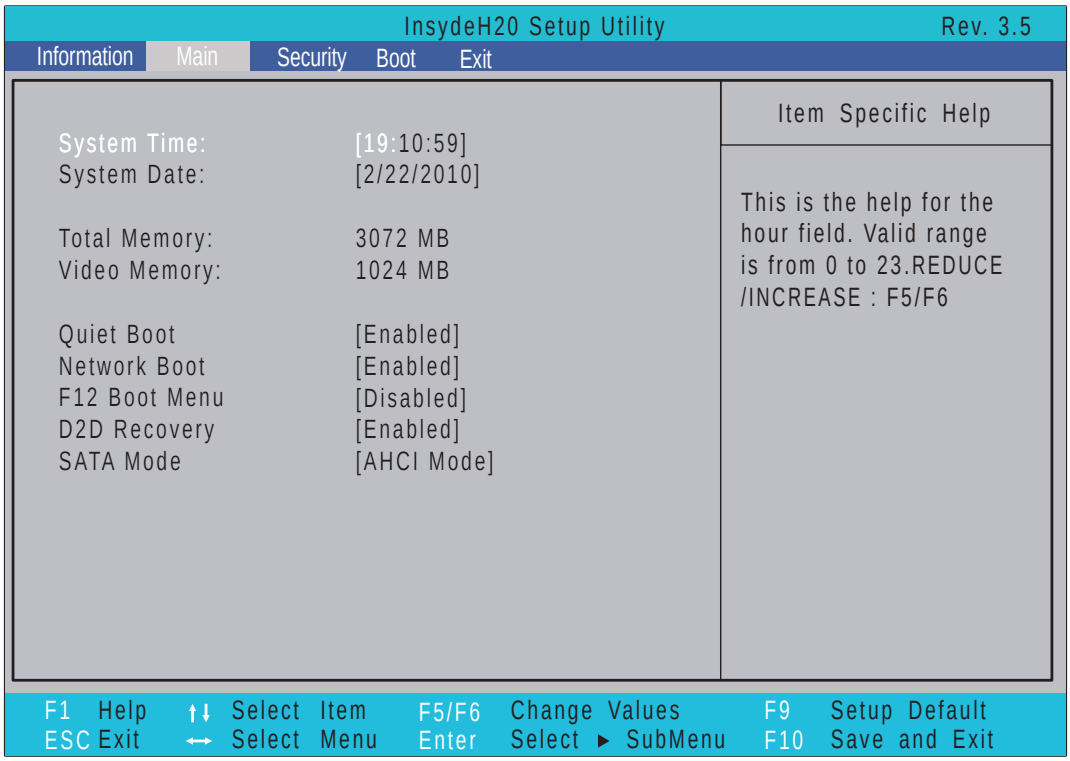
Main

The Main screen allows the user to set the system time and date as well as enable and disable boot options and recovery.


InsydeH20 Setup Utility Rev. 3.5
Information Main Security Boot Exit
System Time: [19:10:59]
System Date: [2/22/2010]
Total Memory: 3072 MB
Video Memory: 1024 MB
Quiet Boot [Enabled]
Network Boot [Enabled]
F12 Boot Menu [Disabled]
D2D Recovery [Enabled]
SATA Mode [AHCI Mode]
Item Specific Help
This is the help for the hour field. Valid range is from 0 to 23.REDUCE /INCREASE : F5/F6
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▶ SubMenu F10 Save and Exit

NOTE: The screen above is for your reference only. Actual values may differ.

The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Format/Option
System Time	Sets the system time. The hours are displayed with 24-hour format.	Format: HH:MM:SS (hour:minute:second)
System Date	Sets the system date.	Format MM/DD/YYYY (month/day/year)
Total Memory	Displays the total memory available.	N/A
Video Memory	Displays the available memory for Video.	N/A
Quiet Boot	Quiet Boot replaces the customary technical messages during POST with a more visually pleasing and comfortable display (OEM Logo screen).	Option: **Enabled** or Disabled
Network Boot	Enables, disables the system boot from LAN (remote server).	Option: **Enabled** or Disabled
F12 Boot Menu	Enables, disables Boot Menu during POST.	Option: Enabled or **Disabled**
D2D Recovery	Enables, disables D2D Recovery function. The function allows the user to restore the system to factory defaults.	Option: Enabled or **Disabled**
SATA Mode	Control the mode in which the SATA controller should operate.	Option: **AHCI Mode** or IDE Mode

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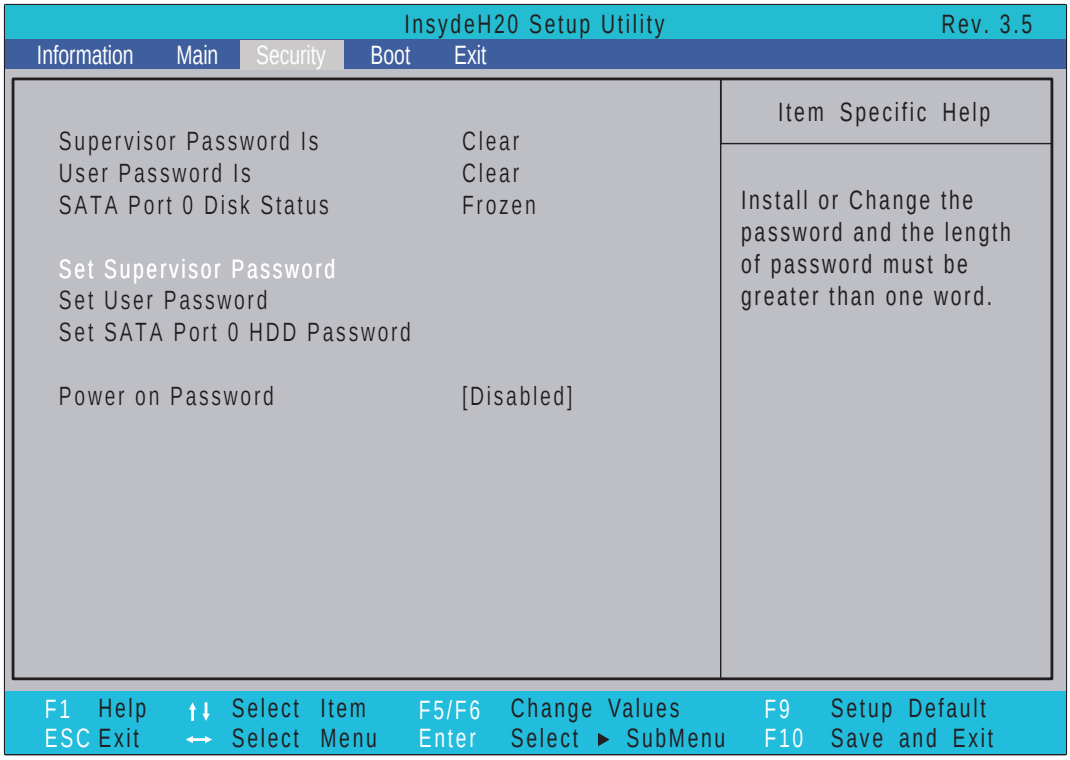
Security

The Security screen contains parameters that help safeguard and protect your computer from unauthorized use.

NOTE: System BIOS does not support Trusted Platform Module (TPM).



The table below describes the parameters in this screen. Settings in **boldface** are the default and suggested parameter settings.

Parameter	Description	Option
Supervisor Password Is	Shows the setting of the supervisor password	**Clear**
User Password Is	Shows the setting of the user password.	**Clear**
SATA Port 0 Disk Status	Shows the setting of the SATA Port Disk Status	**Frozen**
Set Supervisor Password	Press Enter to set the supervisor password. When supervisor password is set, the BIOS Setup Utility is protected from unauthorized access. The user can not either enter the Setup menu nor change the value of parameters.	N/A
Set User Password	Press Enter to set the user password. When user password is set, this password protects the BIOS Setup Utility from unauthorized access. The user can enter Setup menu only and does not have right to change the value of parameters except for the date and time.	N/A
Set SATA Port 0 HDD Password	Enter SATA Port 0 HDD Password.	N/A
Power on Password	Defines whether a power on password is required. When the system is first turned on it will prompt for a password. Without a password the computer will not continue to boot.	**Disabled** or Enabled

NOTE: When prompted to enter a password, you have three tries before the system halts. If you forget your password, you may have to return your notebook computer to your dealer to reset it.

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Setting a Password

Follow these steps as you set the user or the supervisor password:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears:

2. Type a password in the “Enter New Password” field. The password length can not exceed 8 alphanumeric characters (A-Z, a-z, 0-9, not case sensitive). Retype the password in the “Confirm New Password” field.

IMPORTANT: Be very careful when typing your password because the characters do not appear on the screen.

3. Press **Enter**. After setting the password, the computer sets the Supervisor Password parameter to “Set”.
4. If desired, you can opt to enable the Power on Password parameter.
5. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

Removing a Password

Follow these steps:

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Password box appears:

2. Type the current password in the Enter Current Password field and press **Enter**.
3. Press **Enter** twice **without** typing anything in the Enter New Password and Confirm New Password fields. The computer then sets the Supervisor Password parameter to “Clear”.
4. After all changes are made, save and exit the BIOS Setup Utility.

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Changing a Password

1. Use the ↑ and ↓ keys to highlight the Set Supervisor Password parameter and press the **Enter** key. The Set Supervisor Password box appears.

2. Type the current password in the Enter Current Password field and press **Enter**.
3. Type a password in the Enter New Password field. Retype the password in the Confirm New Password field.
4. Press **Enter**. After setting the password, the computer sets the Supervisor Password parameter to “Set”.
5. If desired, you can enable the Power on Password parameter.
6. When you are done, press F10 to save the changes and exit the BIOS Setup Utility.

If the verification is OK, the screen will display as following.

The password setting is complete after the user presses **Enter**.

If the current password entered does not match the actual current password, the screen will show you the Setup Warning.

If the new password and confirm new password strings do not match, the screen will display the following message.

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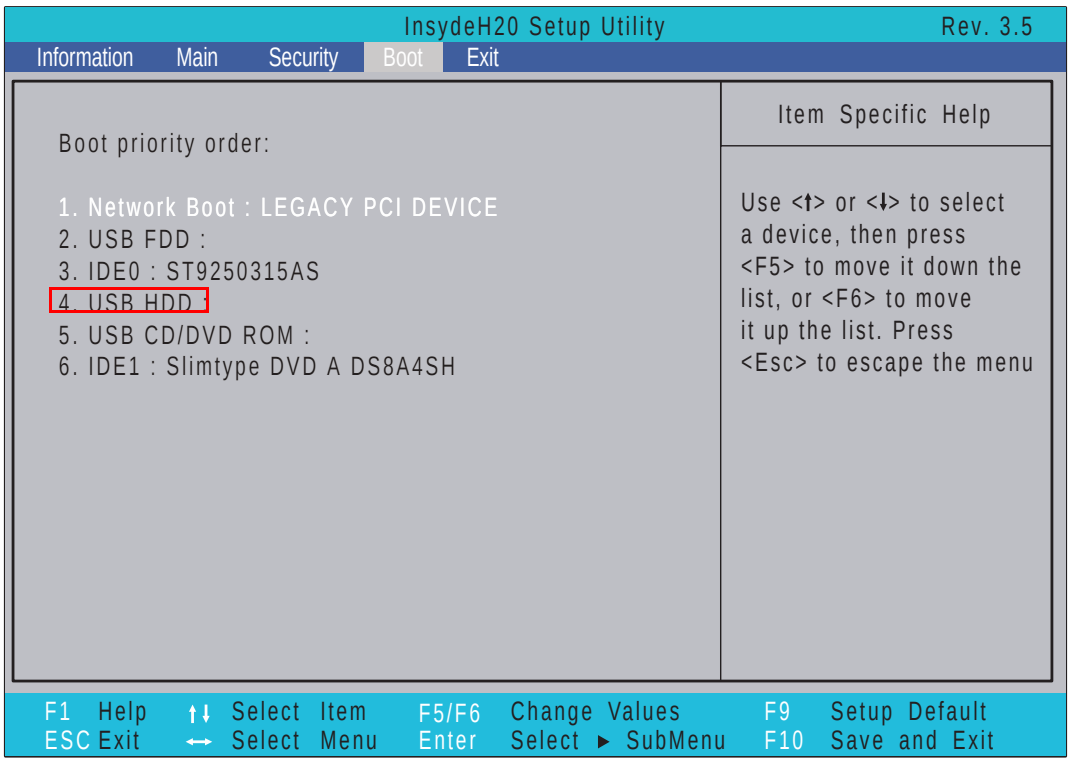
Boot

This menu allows the user to decide the order of boot devices to load the operating system. Bootable devices includes the USB diskette drives, the onboard hard disk drive and the DVD drive in the module bay.

Select Boot menu to select specific devices to support boot.


InsydeH20 Setup Utility
Rev. 3.5
Information
Main
Security
Boot
Exit
Boot priority order:
1. Network Boot : LEGACY PCI DEVICE
2. USB FDD :
3. IDE0 : ST9250315AS
4. USB HDD :
5. USB CD/DVD ROM :
6. IDE1 : Slimtype DVD A DS8A4SH
Item Specific Help
Use <↑> or <↓> to select a device, then press <F5> to move it down the list, or <F6> to move it up the list. Press <Esc> to escape the menu
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▸ SubMenu F10 Save and Exit

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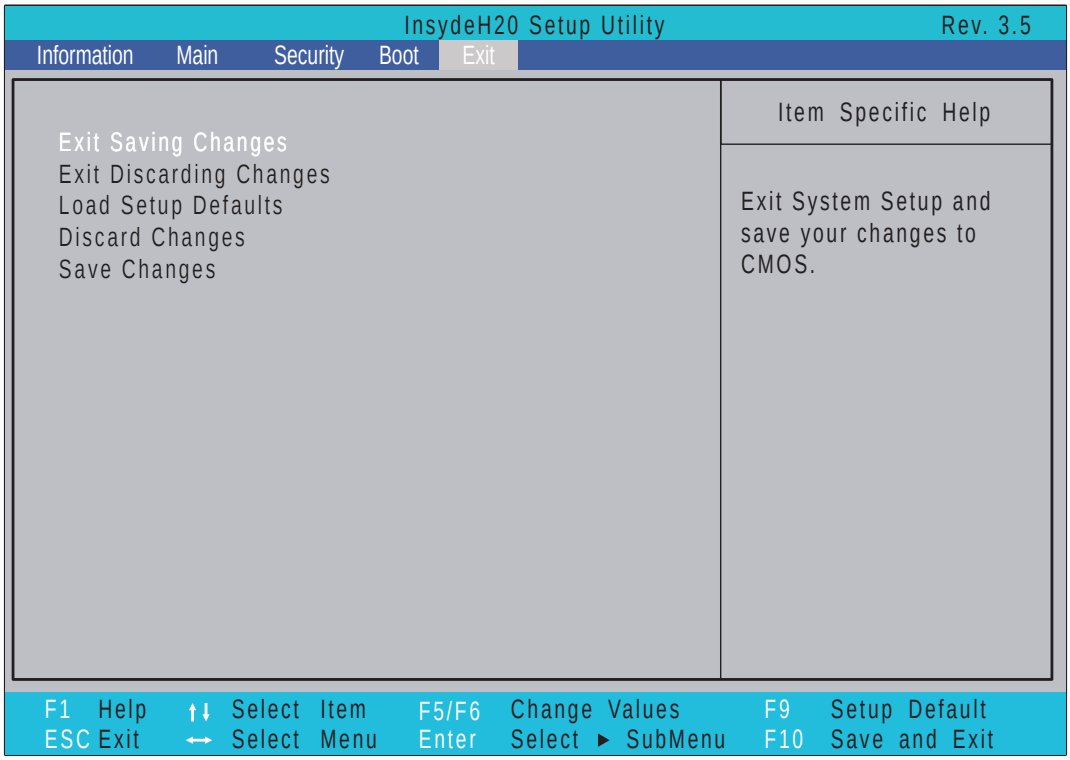
Exit

The Exit screen allows you to save or discard any changes you made and quit the BIOS Utility.



The table below describes the parameters in this screen.

Parameter	Description
Exit Saving Changes	Exit System Setup and save your changes to CMOS.
Exit Discarding Changes	Exit utility without saving setup data to CMOS.
Load Setup Default	Load default values for all Setup items.
Discard Changes	Load previous values for all Setup items.
Save Changes	Save setup data.

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BIOS Flash Utilities

The BIOS flash memory update is required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Flash utility to update the system BIOS Flash ROM.

NOTE: If you do not have a crisis recovery diskette at hand, then you should create a **Crisis Recovery Diskette** before you use the Flash utility.

NOTE: Do not install memory-related drivers (XMS, EMS, DPMI) when you use the Flash.

NOTE: Please use the AC adaptor power supply when you run the Flash utility. If the battery pack does not contain enough power to finish BIOS Flash, you may not boot the system because the BIOS is not completely loaded.

Follow the steps below to run the Flash.

1. Prepare a bootable diskette.
2. Copy the Flash utilities to the bootable diskette.
3. Then boot the system from the bootable diskette. The Flash utility has auto-execution function.

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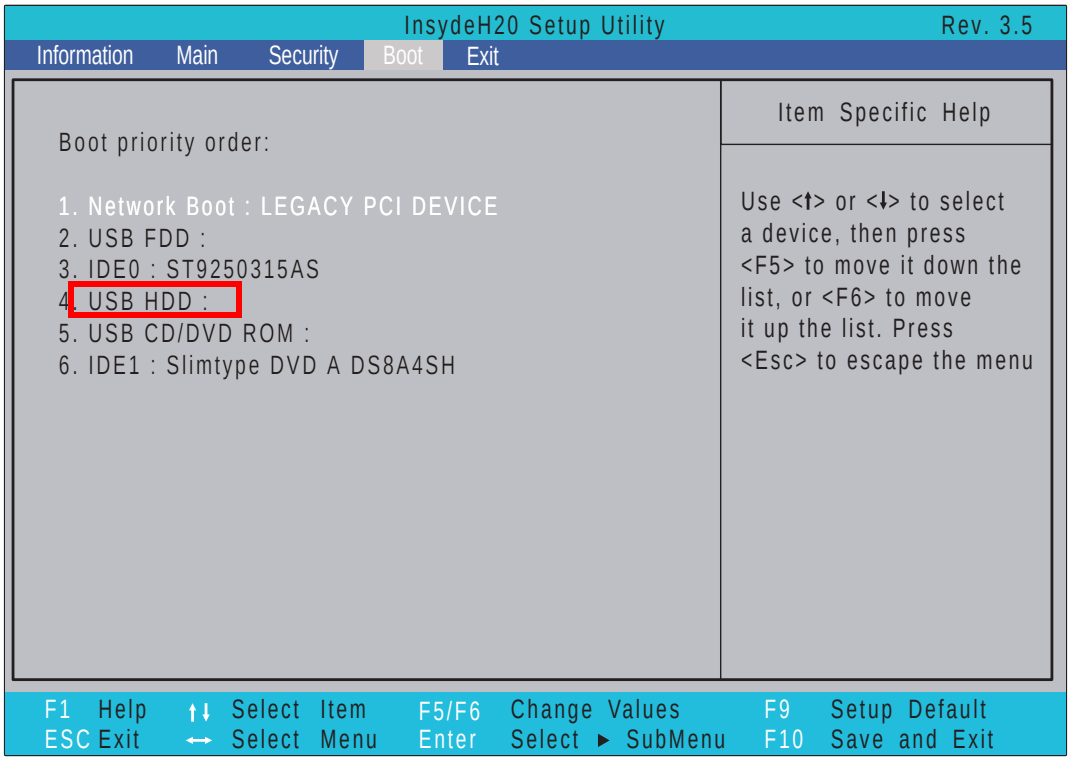
DOS Flash Utility

Perform the following steps to use the DOS Flash Utility:

1. Press F2 during boot to enter the Setup Menu.
2. Select **Boot Menu** to modify the boot priority order, for example, if using USB HDD to Update BIOS, move USB HDD to position 1.


InsydeH20 Setup Utility
Rev. 3.5
Information
Main
Security
Boot
Exit
Boot priority order:
1. Network Boot : LEGACY PCI DEVICE
2. USB FDD :
3. IDE0 : ST9250315AS
4. USB HDD :
5. USB CD/DVD ROM :
6. IDE1 : Slimtype DVD A DS8A4SH
Item Specific Help
Use <↑> or <↓> to select a device, then press <F5> to move it down the list, or <F6> to move it up the list. Press <Esc> to escape the menu
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▸ SubMenu F10 Save and Exit

3. Execute the **BIOS.BAT** batch file to update BIOS.

The flash process begins as shown.

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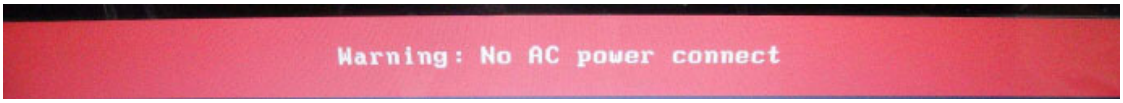
4. In flash BIOS, the message **Please do not remove AC Power Source** displays.

NOTE: If the AC power is not connected, the following message displays.



Plug in the AC power to continue.

5. Flash is complete when the message Flash programming complete displays.

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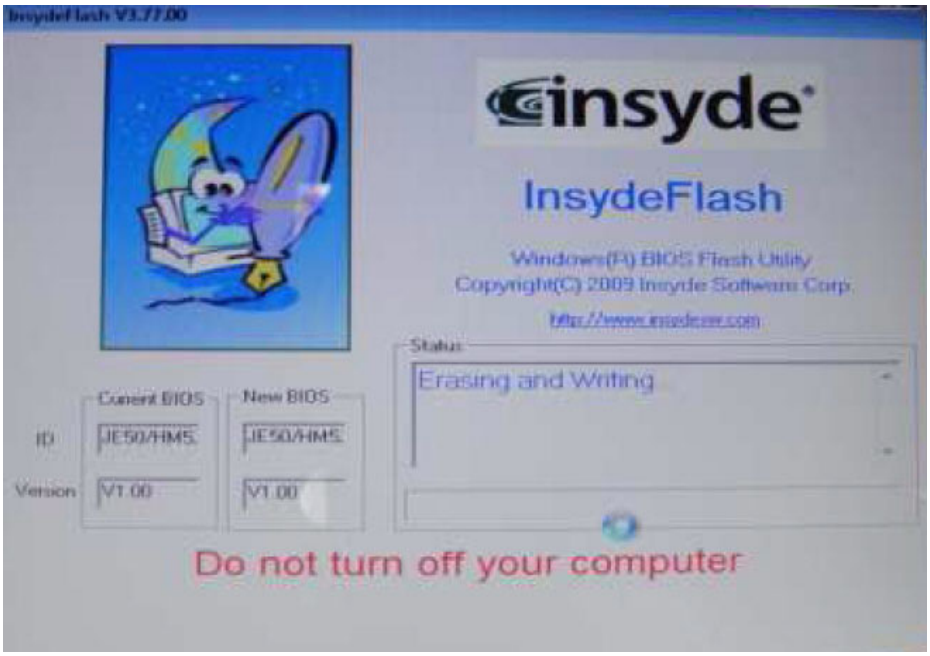
WinFlash Utility

Perform the following steps to use the WinFlash Utility:

1. Double-click the WinFlash executable.
2. Click **OK** to begin the update. A progress screen displays.



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Remove HDD/BIOS Password Utilities

This section provides you with details about removing HDD/BIOS password:

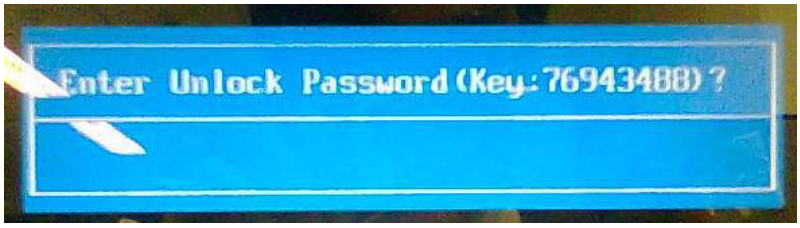
Remove HDD Password:

If you key in the wrong HDD password three times, an error is generated.

To reset the HDD password, perform the following steps:

1. After the error is displayed, select the **Enter Unlock Password** option on the screen.

2. An Encode key is generated for unlocking utilities. Note down this key.



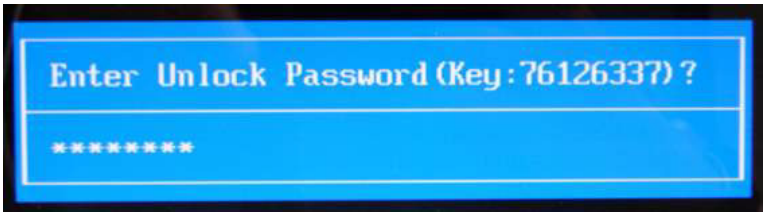
3. Execute the **UnlockHD.EXE** file to create the unlock code in DOS Mode using the format ***UnlockHD [Encode code]*** with the code noted in the previous step, as follows:

   UnlockHD 76943488

4. The command generates a password which can be used for unlocking the HDD.

   Password : 46548274

5. Key in the password from the previous step to unlock the HDD as shown.



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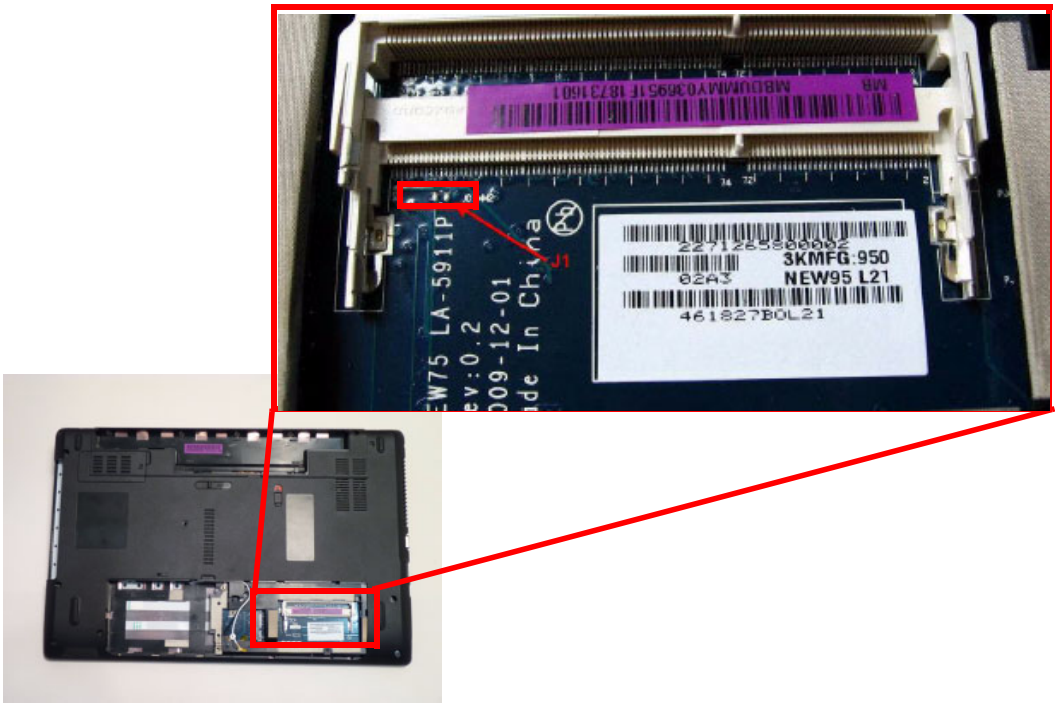
Removing BIOS Passwords:

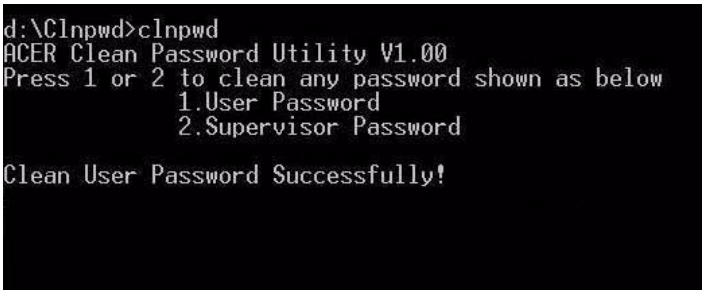
To clear the User or Supervisor passwords, open the DIMM door and use a metal instrument to short the **J1 point**.



Cleaning BIOS Passwords

To clean the User or Supervisor passwords, perform the following steps:

1. From a DOS prompt, execute **clnpwd.exe**
2. Press **1** or **2** to clean the desired password shown on the screen.


d:\Clnpwd>clnpwd
ACER Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as below
1.User Password
2.Supervisor Password
Clean User Password Successfully!

The onscreen message determines whether the function is successful or not.

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Using Boot Sequence Selector

The Boot Sequence Selector allows the boot order to be changed without accessing the BIOS. To use Boot Sequence Selector, perform the following steps:

1. Enter into DOS.
2. Execute **BS.exe** to display the usage screen.

d:\BOOTSEQ>bs
*** Boot Sequence Selecter Version 0.03 ***
Create by Rockwell Chuang 10/01/2005.
Usage:
BS [1 | 2 | 3 | 4]
BS 1 : [Floppy] => [HardDisk] => [CD-ROM] => [LAN]
BS 2 : [HardDisk] => [CD-ROM] => [LAN] => [Floppy]
BS 3 : [CD-ROM] => [HardDisk] => [LAN] => [Floppy]
BS 4 : [LAN] => [Floppy] => [HardDisk] => [CD-ROM]
d:\BOOTSEQ>

3. Select the desired boot sequence by entering the corresponding sequence. For example, enter **BS 2** to change the boot sequence to HDD | CD ROM | LAN | Floppy.

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Using DMITools

The DMI (Desktop Management Interface) Tool copies BIOS information to EEPROM to be used in the DMI pool for hardware management.

When the BIOS displays **Verifying DMI pool data** it is checking that the table correlates with the hardware before sending to the operating system (Windows, etc.).

To update the DMI Pool, perform the following steps:

1. Boot into DOS.
2. Execute **dmitools**. The following messages report to screen to confirm completion:
   - dmitools /r ==> Read dmi string from bios
   - dmitools /wm xxxx ==> Write manufacturer name to eeprom (max. 16 characters)
   - dmitools /wp xxxx ==> Write product name to eeprom (max. 16 characters)
   - dmitools /ws xxxx ==> Write serial number to eeprom (max. 22 characters)
   - dmitools /wu xxxx ==> Write uuid to eeprom
   - dmitools /wa xxxx ==> Write asset tag to eeprom (max. 32 characters)

The following examples show the commands and the corresponding output information.

Read DMI Information from Memory

Input:

dmitools /r

Output:

Manufacturer (Type1, Offset04h): Acer

Product Name (Type1, Offset05h): Aspire xxxxx

Serial Number (Type1, Offset07h): 01234567890123456789

UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

Write Manufacturer Name to EEPROM

Input:

dmitools /wm Acer

Write Product Name to EEPROM

Input:

dmitools /wp Aspire 4540

Write Serial Number to EEPROM

Input:

dmitools /ws 01234567890123456789

Write UUID to EEPROM

Input:

dmitools /wu

Write Asset Tag to EEPROM

Input:

dmitools /wa Acet Asstag

NOTE: When using any of the Write options, restart the system to make the new DMI data effective.

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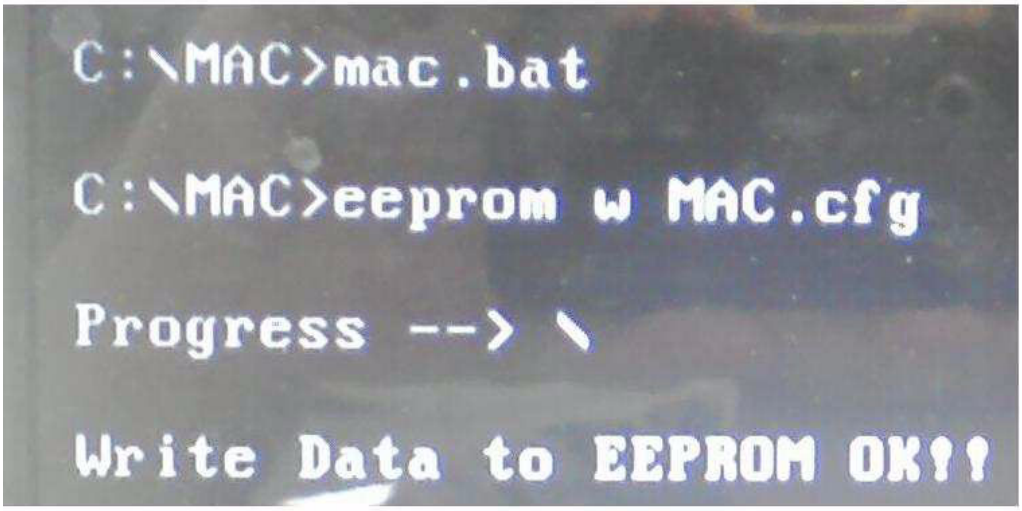
Using the LAN MAC EEPROM Utility

You can use the MAC.BAT utility to write the MAC.CFG file to the EEPROM under DOS mode.

1. Use a text editor (for example: Notepad) to open the MAC.CFG file. You can see the MAC.CFG contents as below:

WriteData = '001122334455'	MAC value
StartAddr=7A	MAC address
WriteLeng=6	MAC value length
KeepByte=0	don't care

2. In DOS mode, run the **MAC.BAT** file to write MAC values to eeprom.



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Chapter 3

Machine Disassembly and Replacement

IMPORTANT: The outside housing and color may vary from the mass produced model.

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

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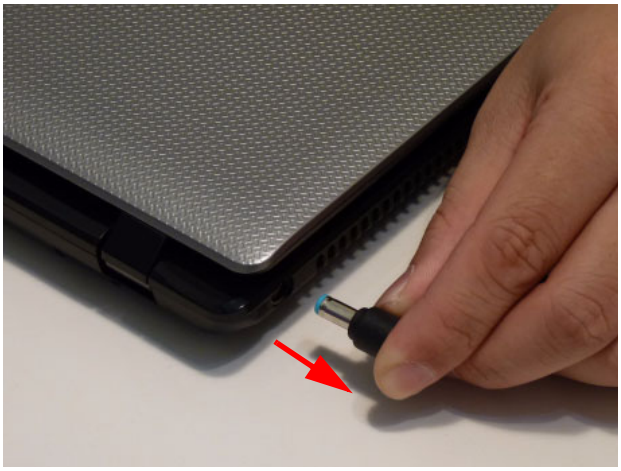
Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.
4. Remove the battery pack.

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Disassembly Process

IMPORTANT: The LCD Module cannot be disassembled outside of factory conditions. If any part of the LCD Module is faulty, such as the camera, antenna or LCD panel, the whole module must be replaced.

The disassembly process is divided into the following stages:

- External module disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the mainboard, you must first remove the keyboard, then disassemble the inside assembly frame in that order.

Main Screw List

Screw	Quantity	Part Number
M2.5*8	19	
M2*3	26	
M2.5*5	8	
M2.5*3.2	4	
M2.5*6	4	

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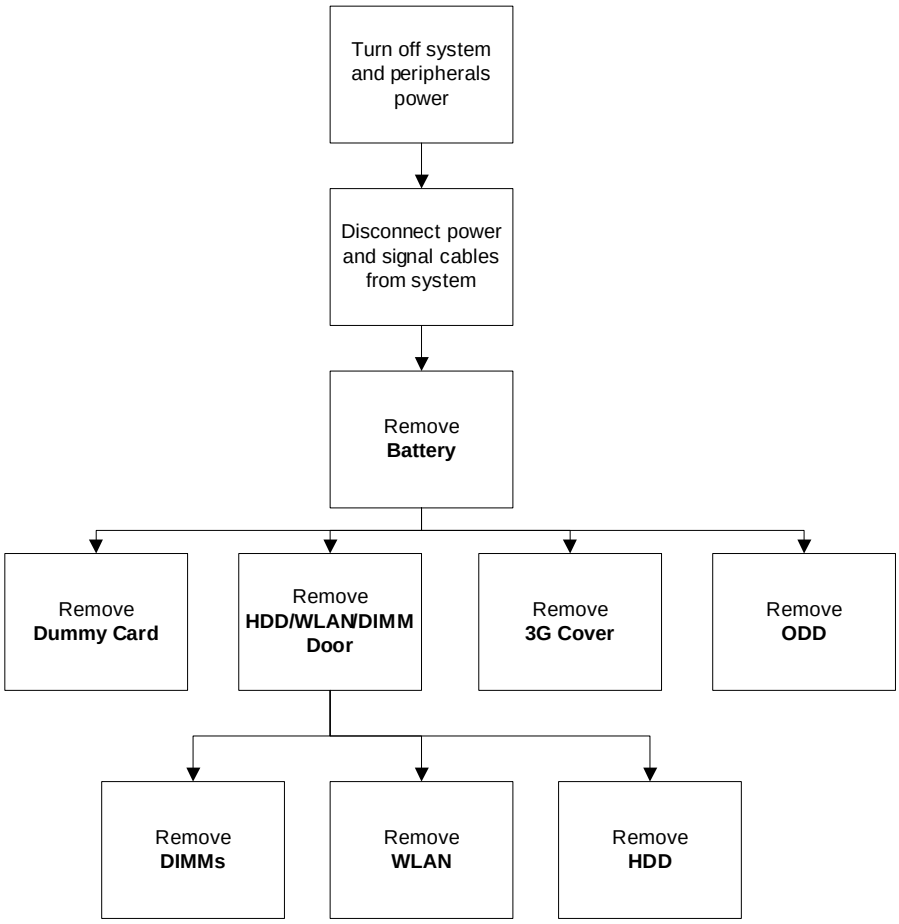
External Module Disassembly Process

IMPORTANT: The outside housing and color may vary from the mass produced model.

External Modules Disassembly Flowchart

The flowchart below gives you a graphic representation of the external module disassembly sequence and instructs you on the components that need to be removed during servicing. For example, if you want to remove the keyboard, you must first remove the switch board.



Screw List

Step	Screw	Quantity	Part No.
ODD Module	M 2.5*8	1	
ODD Bracket	M2*3	2	
3G Cover	M2*3	1	
Logic Lower Door	M2.5*8	2	
WLAN Module	M2*3	1	
HDD Carrier	M3*3	4	

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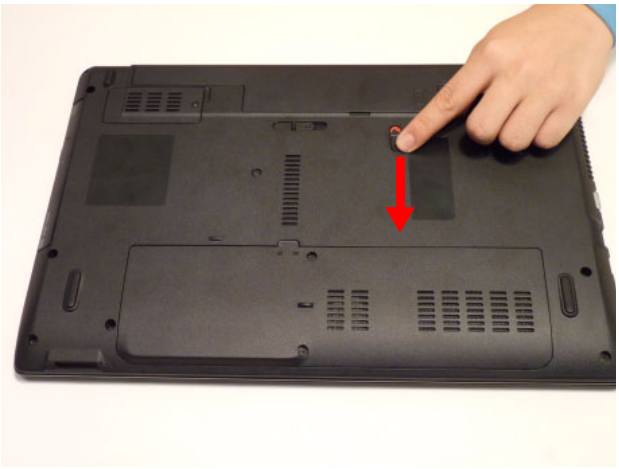
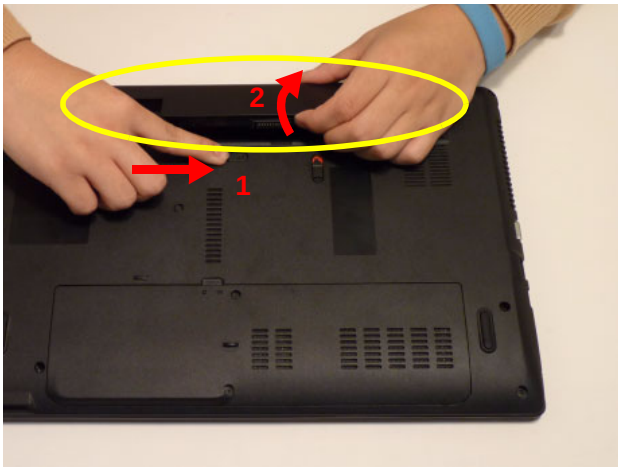
Removing the Battery Pack

1. Turn computer over. Slide the battery lock in the direction shown.



2. Slide and hold the battery release latch to the release position (1), then lift out the battery pack from the main unit (2).



NOTE: Please follow local regulations for disposal.

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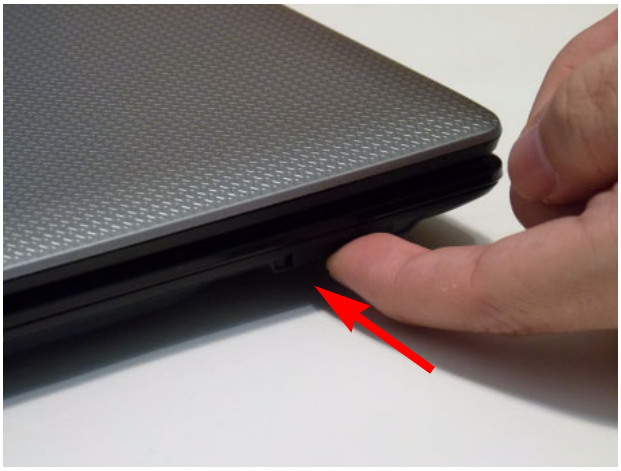
Removing the SD Dummy Card

1. Push the SD dummy card all the way in to eject it.



2. Pull it out from the slot.

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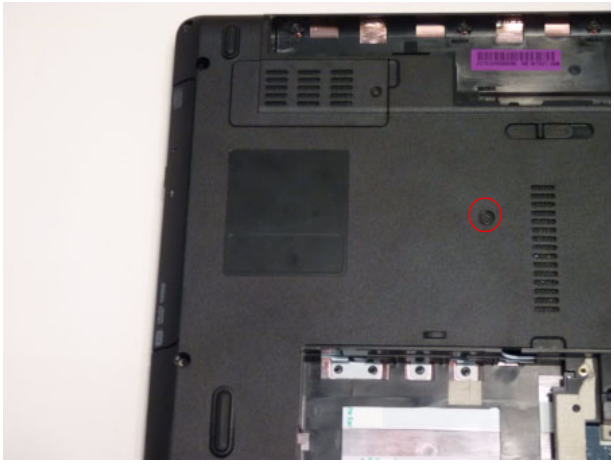
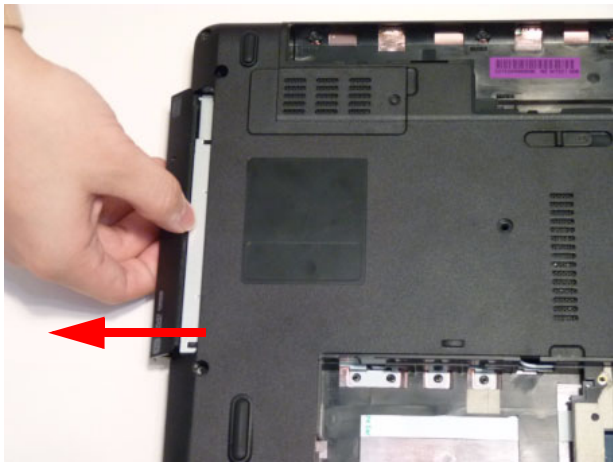
Removing the Optical Drive Module

1. See “Removing the Battery Pack” on page 47.
2. Remove the screw securing the ODD module.



Step	Size	Quantity	Screw Type
ODD Module	M2.5*8	1	

3. Pull the optical drive module out from the chassis.



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4. Remove the two (2) screws securing the ODD bracket and remove the ODD bracket from the optical disk drive module.

Step	Size	Quantity	Screw Type
ODD Bracket	M2*3	2	

5. Remove the ODD bezel by prying the top edge away and clear of the module.

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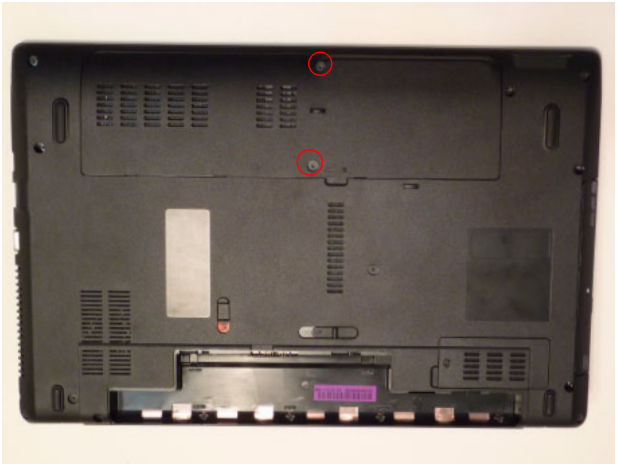
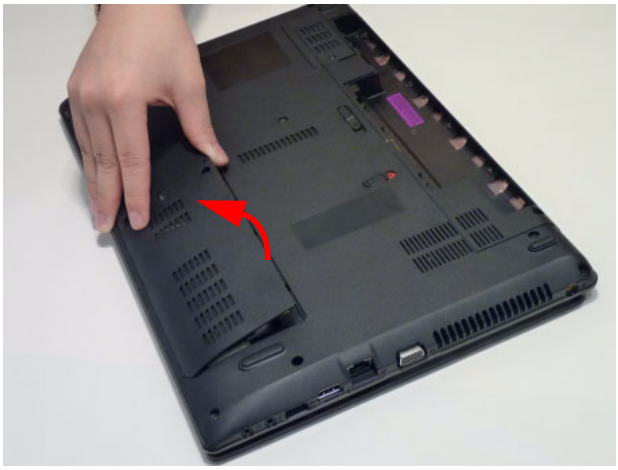
Removing the Logic Lower Door

1. Remove two (2) screws from the logic lower door.



Step	Size	Quantity	Screw Type
Logic lower door	M2.5*8	2	

2. Lift the door beginning from the inner edge as shown.



3. Lift the door clear of the device, exposing the HDD, DIMM, and WLAN modules.

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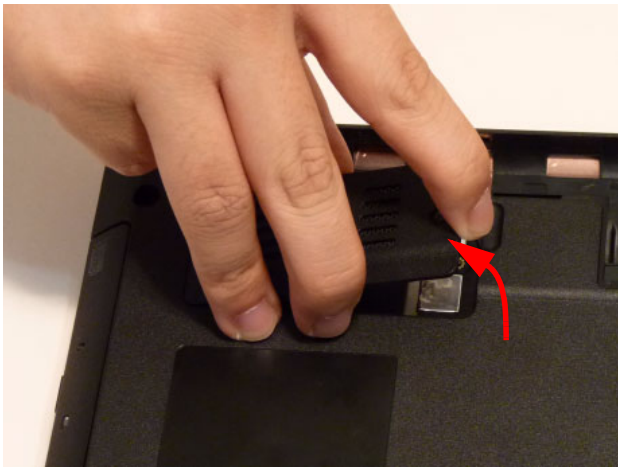
Removing the 3G Cover

1. Remove one (1) screw from the 3G Cover.

Step	Size	Quantity	Screw Type
3G Cover	M2*3	1	

2. Lift the 3G Cover from the right edge first, then remove completely.



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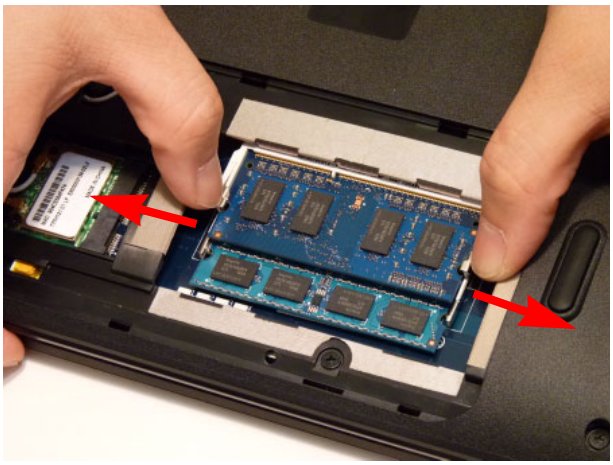
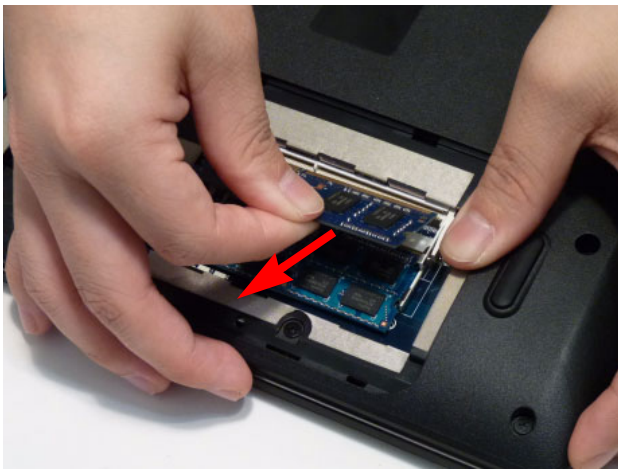
Removing the DIMM Module

1. See “Removing the Logic Lower Door” on page 51.
2. Push out the release latches on both sides of the DIMM socket to release the DIMM module.



3. Remove the DIMM module.



4. Repeat steps 2 and 3 for the second DIMM module if present.

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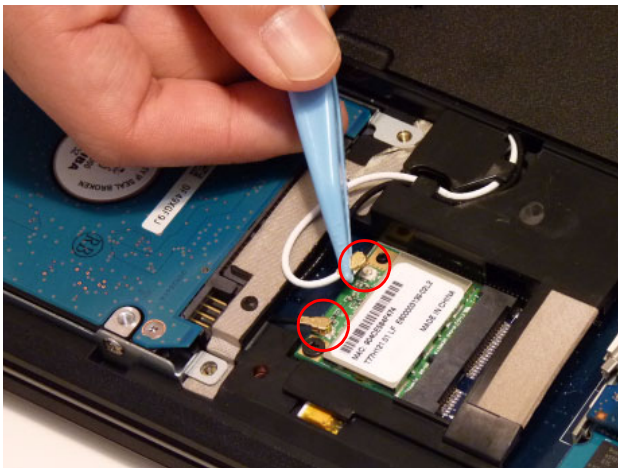
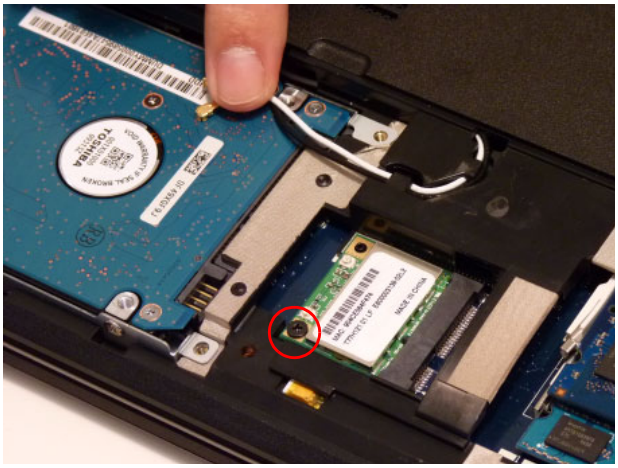
Removing the WLAN Module

1. See “Removing the Logic Lower Door” on page 51.
2. Disconnect the antenna cables from the WLAN Board.



NOTE: Cable placement is **Black** to the **MAIN** terminal and **White** to the **AUX** terminal.

3. Move the antenna away and remove the two (1) screws to release the WLAN Board.



Step	Size	Quantity	Screw Type
WLAN Module	M2*3	1	

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4. Detach the WLAN Board from the WLAN socket.

NOTE: When reattaching the antennas, ensure the cables are tucked into the chassis to prevent damage.

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Removing the Hard Disk Drive Module

1. See “Removing the Logic Lower Door” on page 51.
2. Using the pull-tab, slide the HDD Module in the direction of the arrow to disconnect the interface.

3. Lift the HDD Module clear of the HDD bay.

NOTE: To prevent damage to device, avoid pressing down on it or placing heavy objects on top of it.

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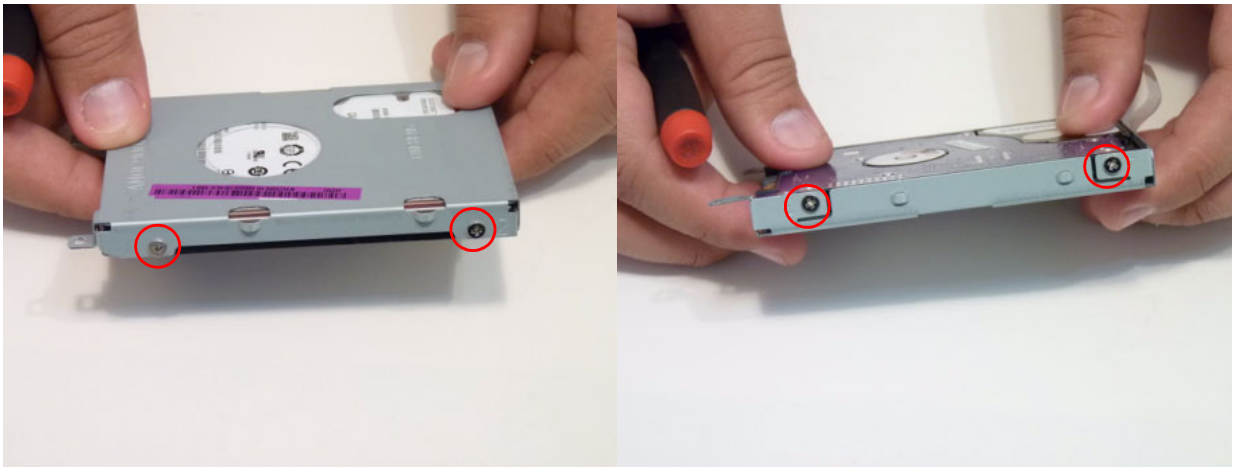
4. Remove the four (4) screws (two each side) securing the hard disk to the carrier.



Step	Size	Quantity	Screw Type
HDD Carrier	M3*3	4	

5. Remove the HDD from the carrier.

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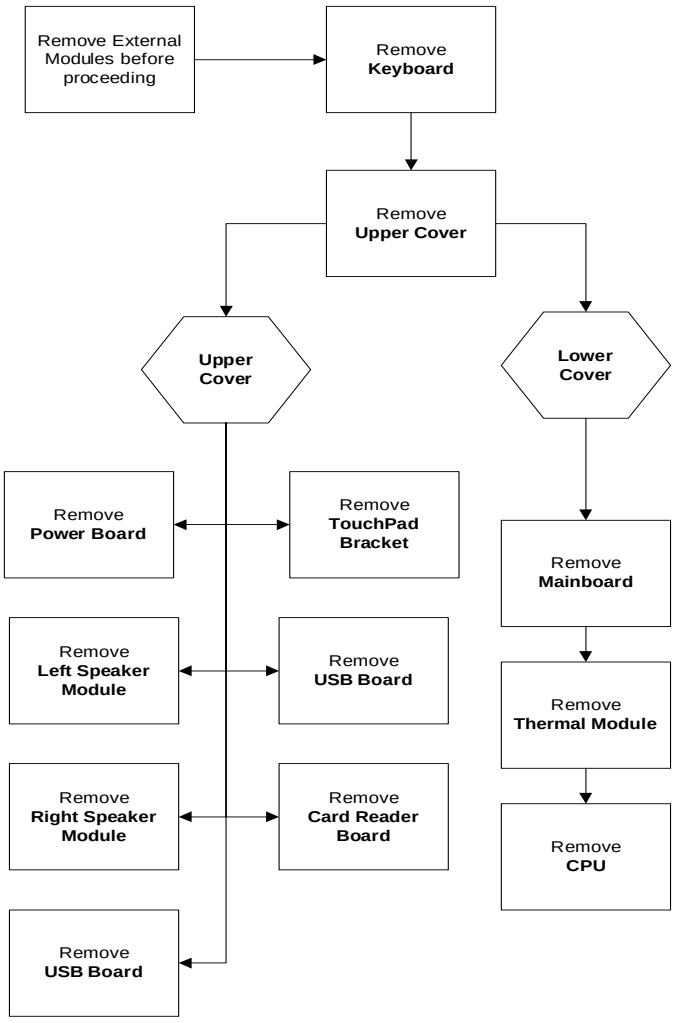
Main Unit Disassembly Process

Main Unit Disassembly Flowchart



Screw List

Step	Screw	Quantity	Part No.
Upper Cover	M2.5*5	7	
Lower Cover	M2.5*8	11	
Battery Bay	M2*3	4	
Left Speaker Module	M2*3	2	
Right Speaker Module	M2*3	2	
Power Board	M2*3	2	
Card Reader	M2*3	1	
USB Board	M2*3	1	
TouchPad Bracket	M2*3	1	
Mainboard	M2.5*5	1	
Thermal Module	M1.98*3	4	

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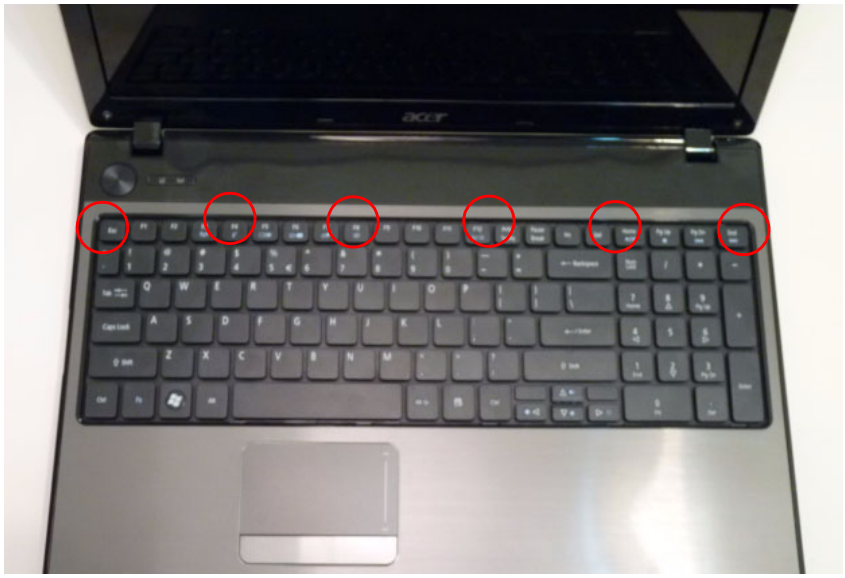
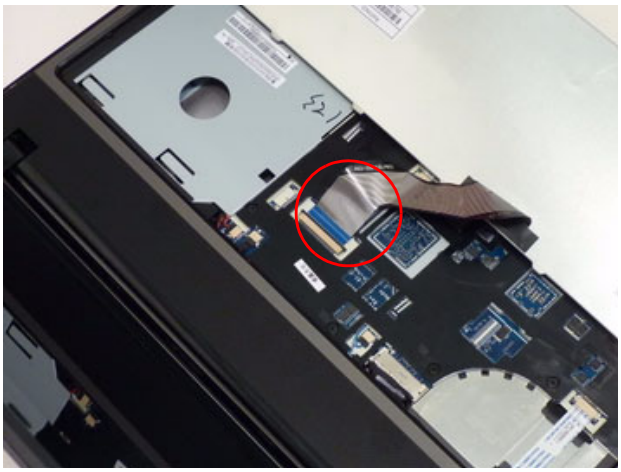
Removing the Keyboard

1. Unlock the six (6) keyboard locks.



2. Pry up the centre of the Keyboard and rotate it upward away from the Upper Cover.

3. Turn the keyboard over on to the TouchPad area to expose the FFC connector.



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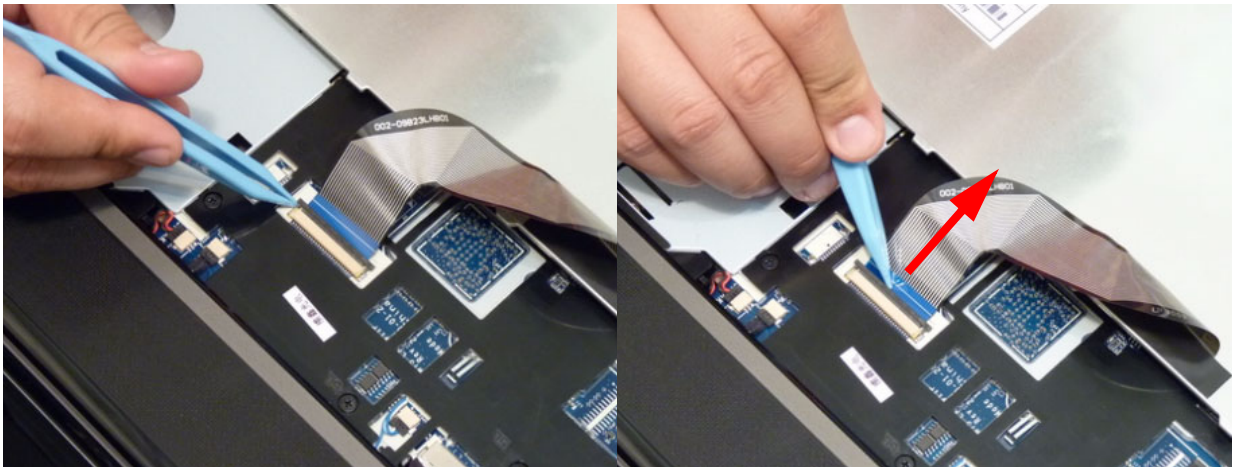
4. Open the locking latch and disconnect the FFC from the mainboard.



5. Lift the keyboard clear of the Upper Cover.

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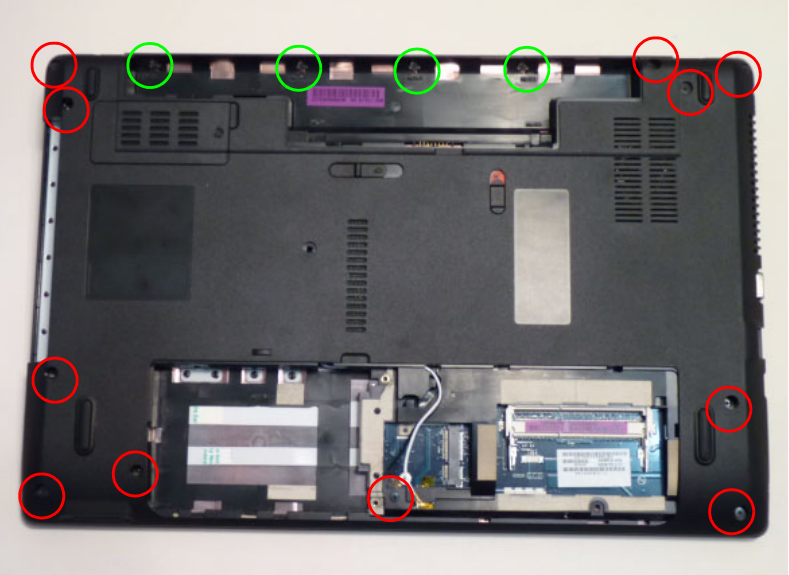
Removing the Upper Cover

1. See “External Module Disassembly Process” on page 46.
2. Turn the computer over. Remove the eleven (11) screws on the lower cover and four (4) screws from the battery bay.



Step	Size	Quantity	Screw Type
Lower Cover (red callout)	M2.5*8	11	
Battery Bay (green callout)	M2*3	4	

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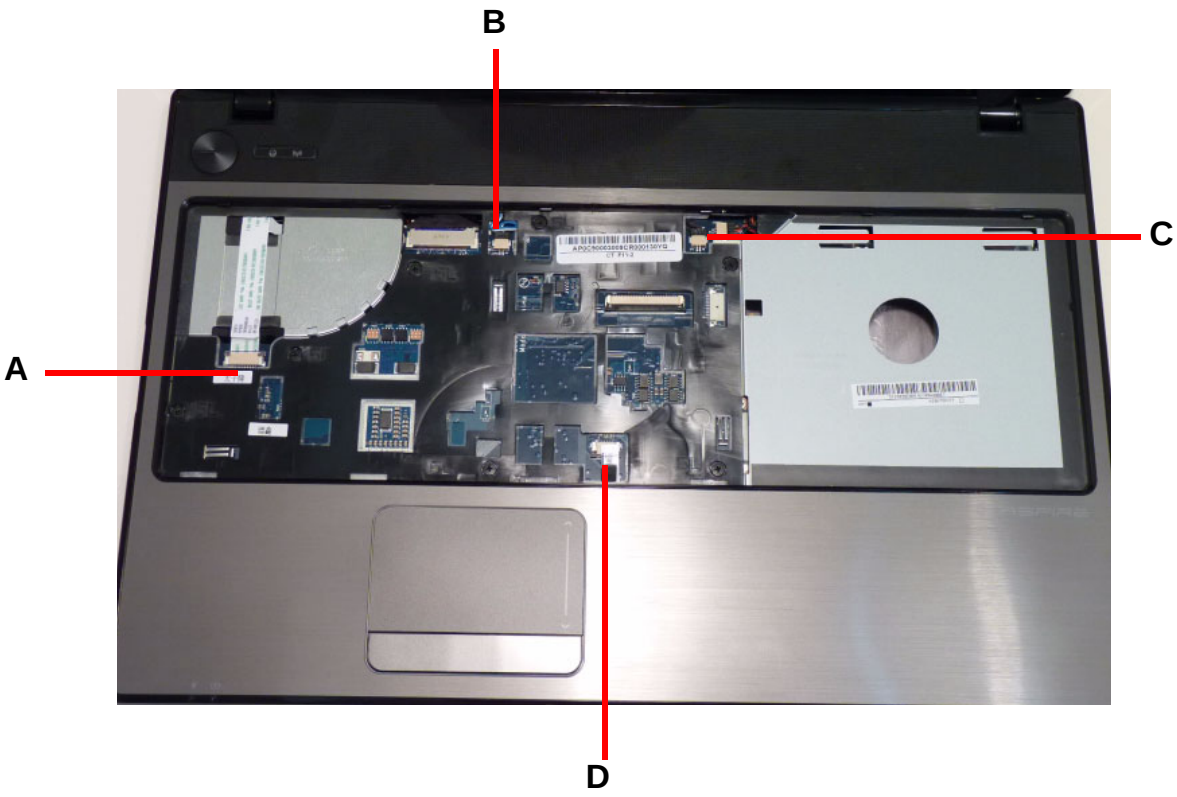
3. Turn the computer over and disconnect the following four (4) cables from the Mainboard.



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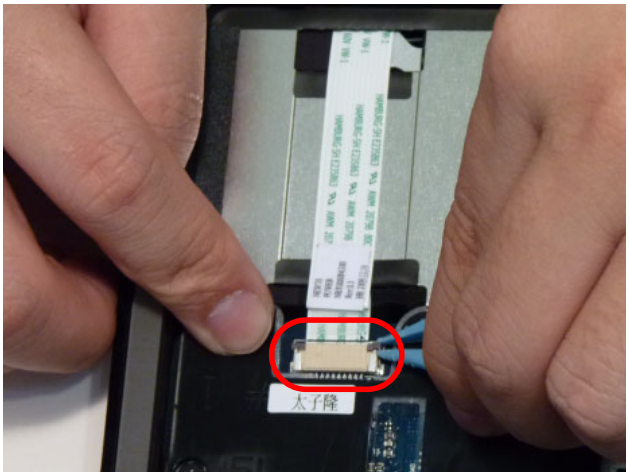
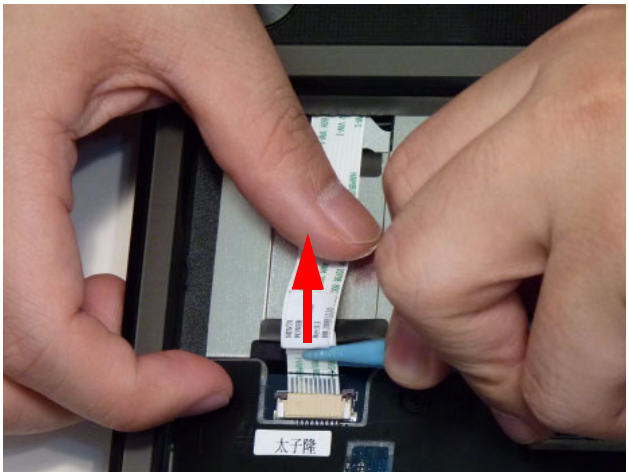
4. Release the locking latch on **A**.

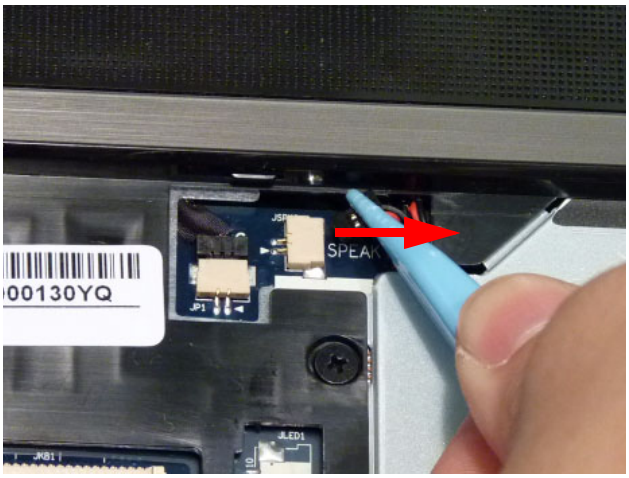


5. Disconnect **A** as shown.

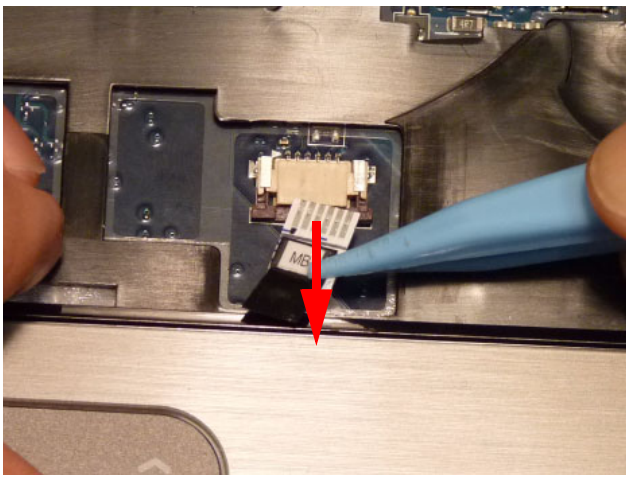


6. Release the locking latch on **B** and remove the cable as shown.

7. Release the locking latch on **C** and remove the cable as shown.



8. Release the locking latch on **D** and remove the cable as shown.



NOTE: Avoid pulling on cables directly to prevent damage to the connectors.

NOTE: Use the pull-tabs on FFCs whenever available to prevent damage.

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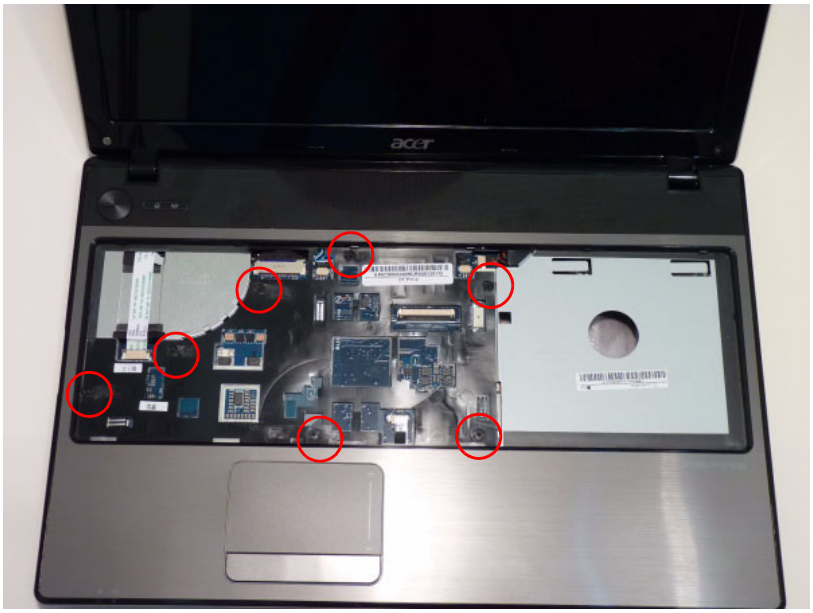
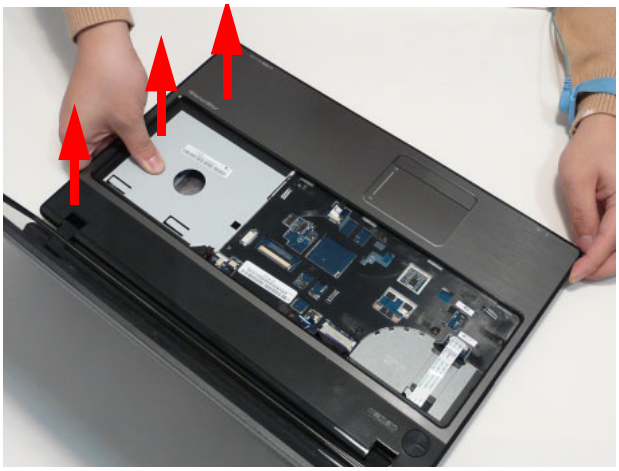
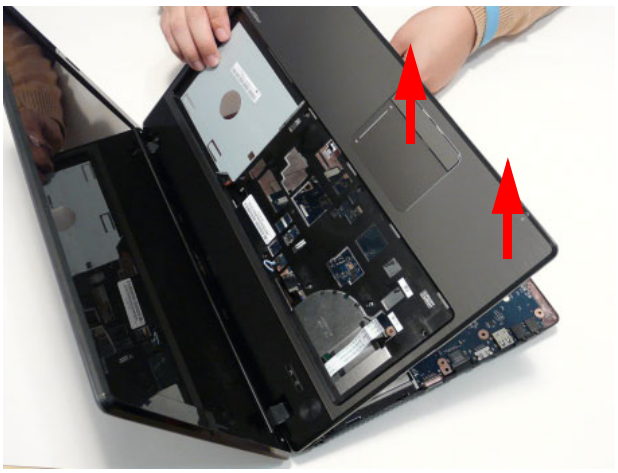
9. Remove the seven (7) screws on the Upper Cover as shown.

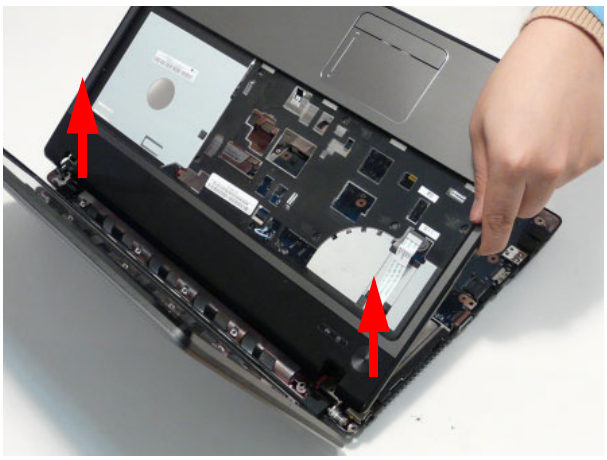


Step	Size	Quantity	Screw Type
Upper Cover	M2.5*5	7	

10. Starting at the top right side of the cover, pry apart the Upper and Lower Covers as shown. Work along the front edge of the casing to the left as shown, then lift the Upper Cover clear of the Lower Cover.







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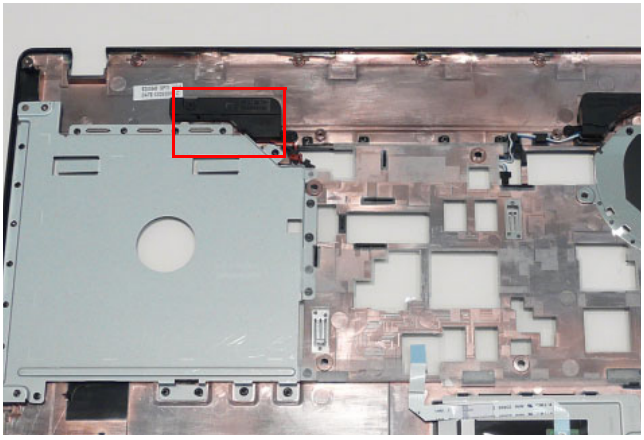
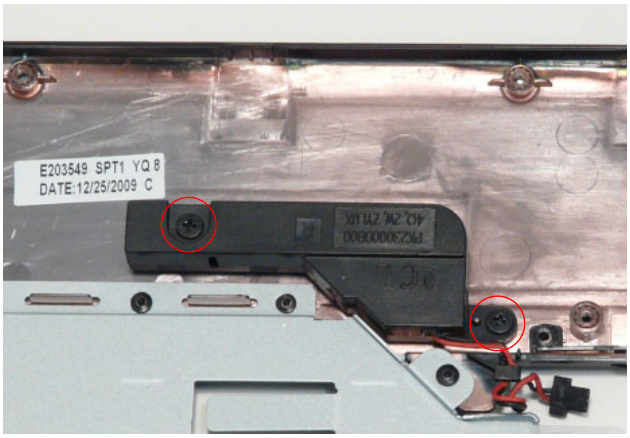
Removing the Left Speaker Module

1. See “Removing the Upper Cover” on page 61.
2. Locate the Left Speaker Module on the Upper Cover as shown.

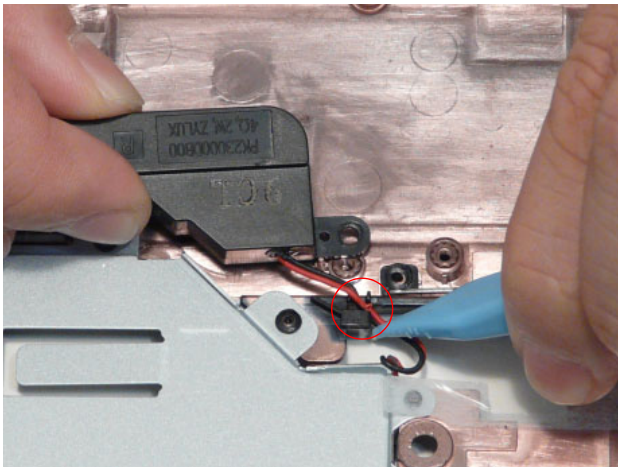


3. Remove two (2) screws from the left speaker module.



Step	Size	Quantity	Screw Type
Left Speaker Module	M2*3	2	

4. Remove the Speaker cable from the cable channel. Ensure that the cable is free from all cable clips.



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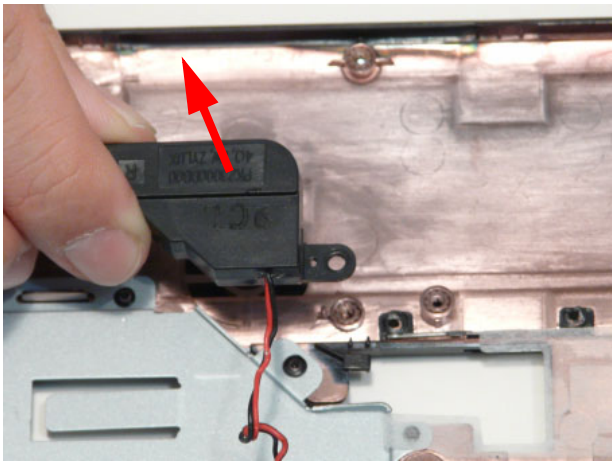
5. Lift the Speaker clear of the Upper Cover.



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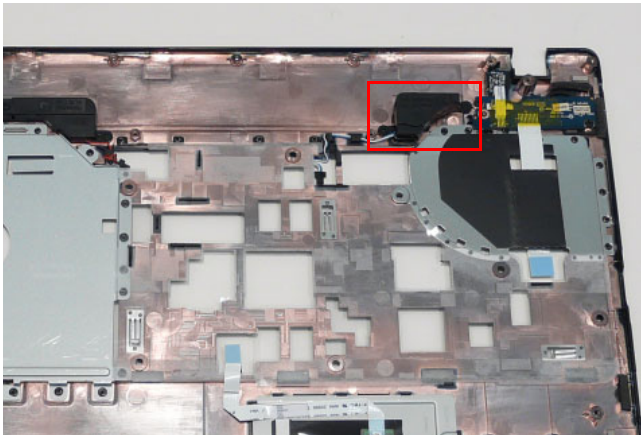
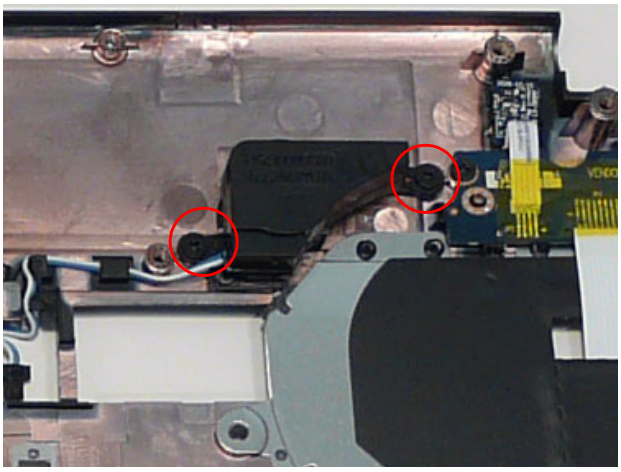
Removing the Right Speaker Module

1. See “Removing the Upper Cover” on page 61.
2. Locate the Right Speaker Module on the Upper Cover as shown.

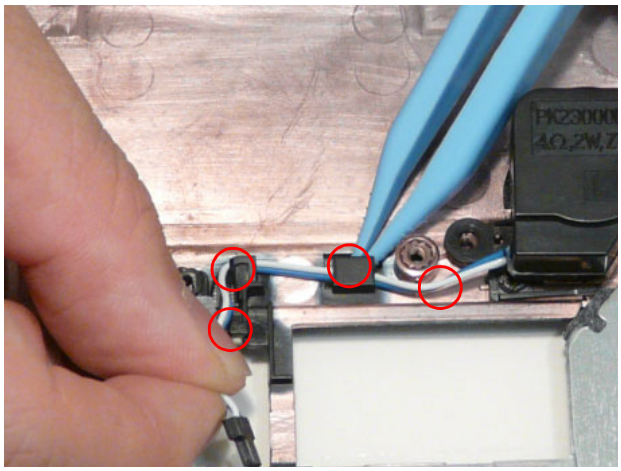


3. Remove the two (2) securing screws from the Right Speaker Module.



Step	Size	Quantity	Screw Type
Right Speaker Module	M2*3	2	

4. Remove the Right Speaker Module cable from the cable channel. Ensure that the cable is free from all cable clips.



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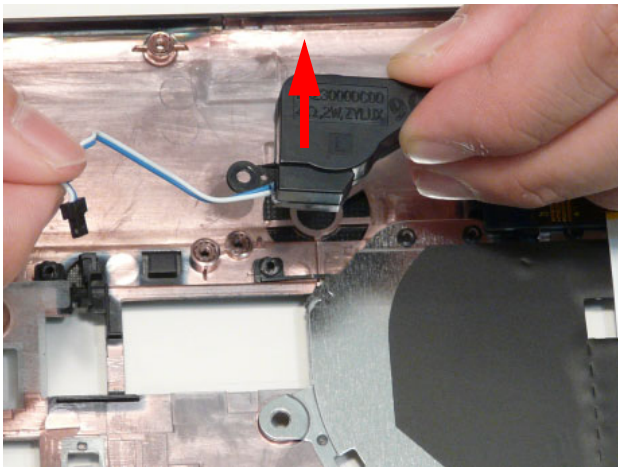
5. Lift the Right Speaker Module clear of the device.



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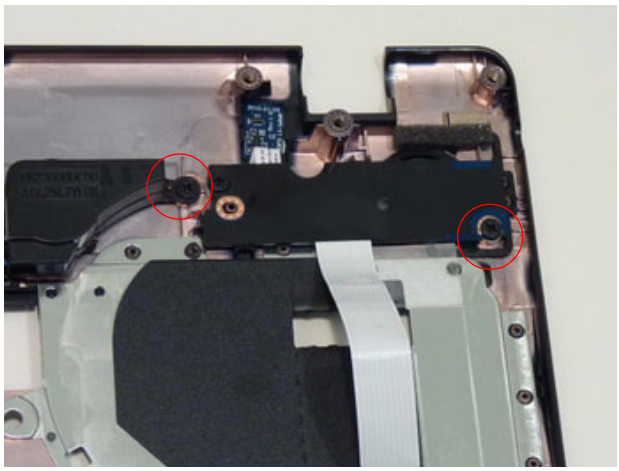
Removing the Power Board

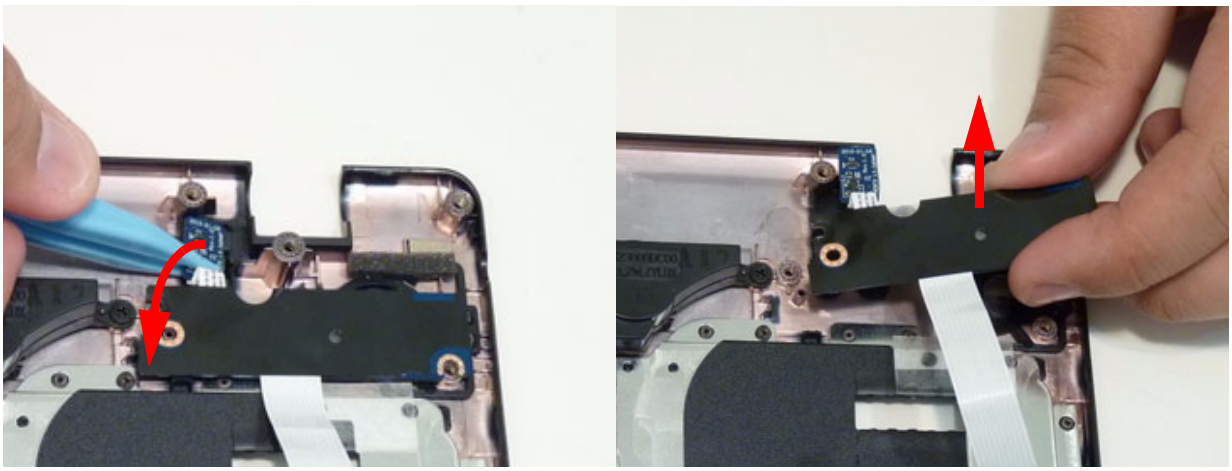
1. See “Removing the Upper Cover” on page 61.
2. Turn the upper cover over and remove the power board cable. Pass the cable through the upper cover as shown.

3. Remove two (2) screws from the power board.



Step	Size	Quantity	Screw Type
Power board	M2*3	2	

4. Remove the power board assembly and lift the power board clear of the device.



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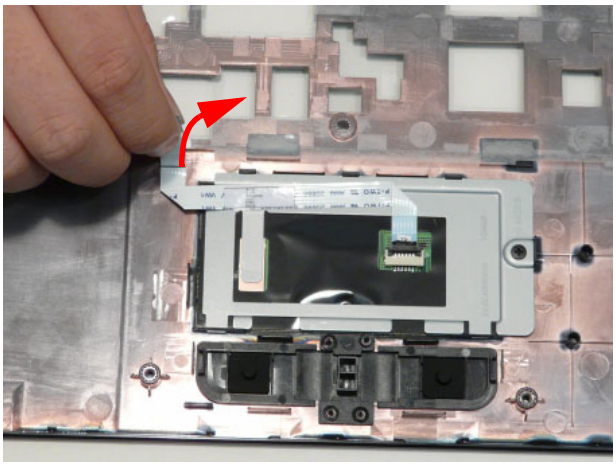
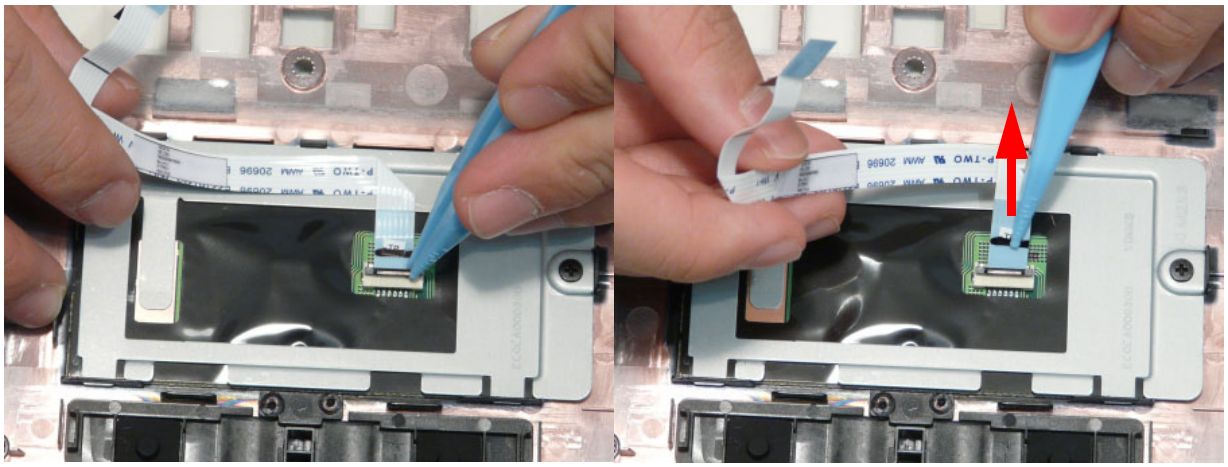
Removing the TouchPad Bracket

IMPORTANT: The TouchPad Board cannot be removed individually. To replace the TouchPad Board, replace the entire Upper Cover.

1. See “Removing the Upper Cover” on page 61.
2. Lift the FFC to detach the adhesive securing the cable to the Upper Cover.



3. Release the FFC locking latch and disconnect the TouchPad FFC from the cover.



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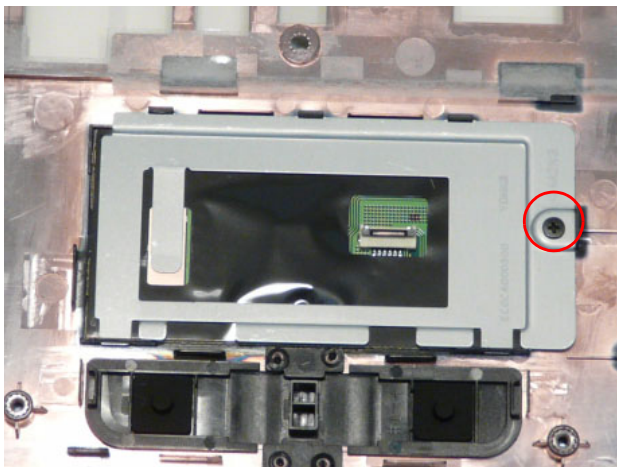
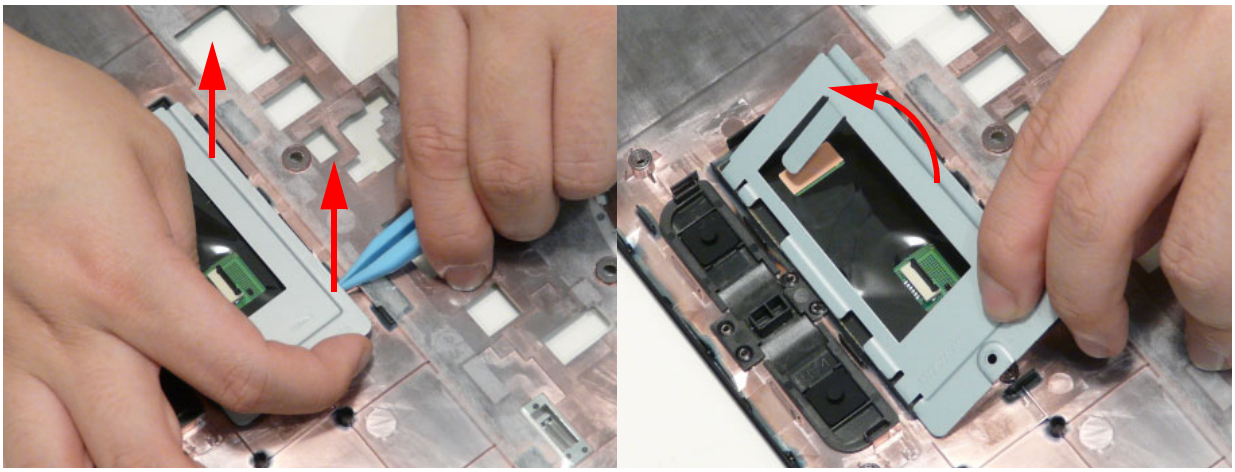
4. Remove the one (1) screw from TouchPad bracket.



Step	Size	Quantity	Screw Type
TouchPad Bracket	M2*3	1	

5. Pry the Touchpad bracket off the adhesive and remove it as shown.



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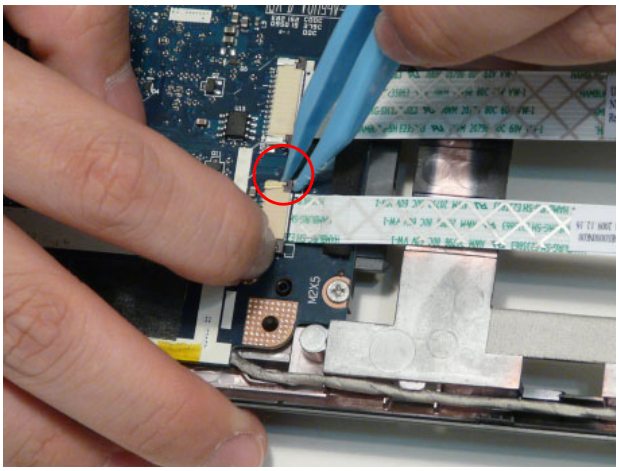
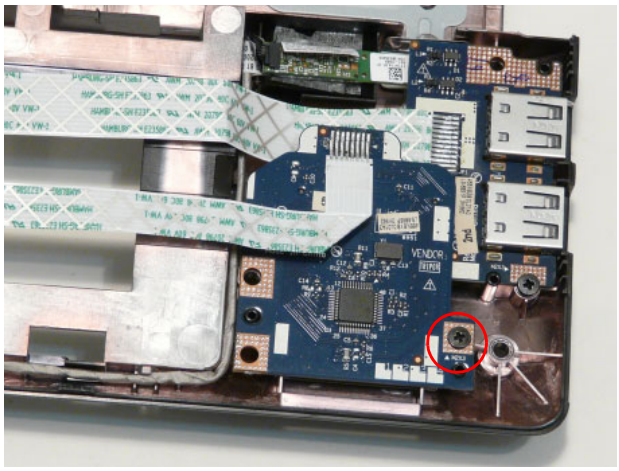
Removing the Card Reader Board

1. See “Removing the Upper Cover” on page 61.
2. Unlock the mainboard to card reader cable connector.

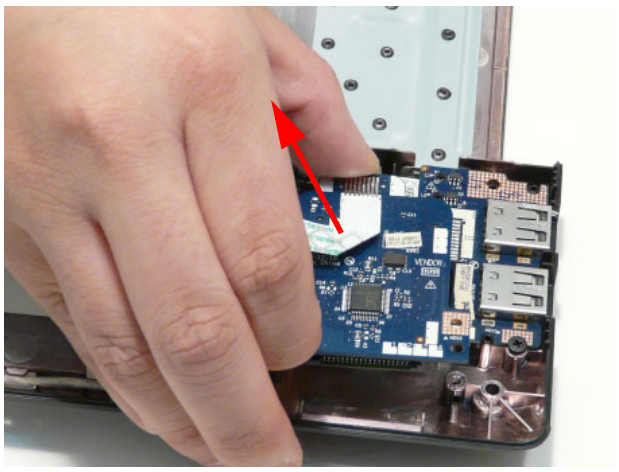


3. Remove one (1) screw from the card reader board.



Step	Size	Quantity	Screw Type
Card Reader	M2*3	1	

4. Lift the card reader board clear of the device.



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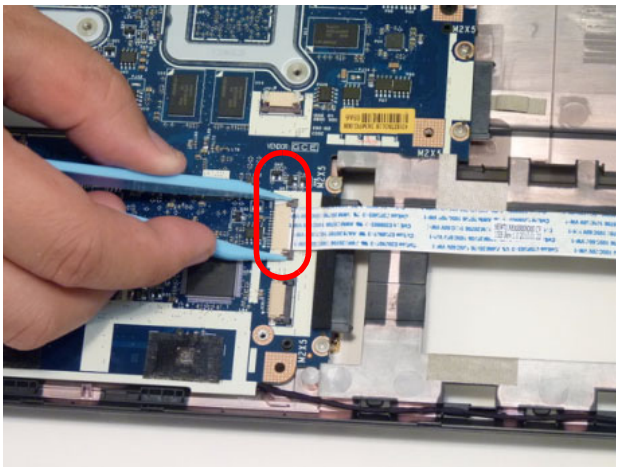
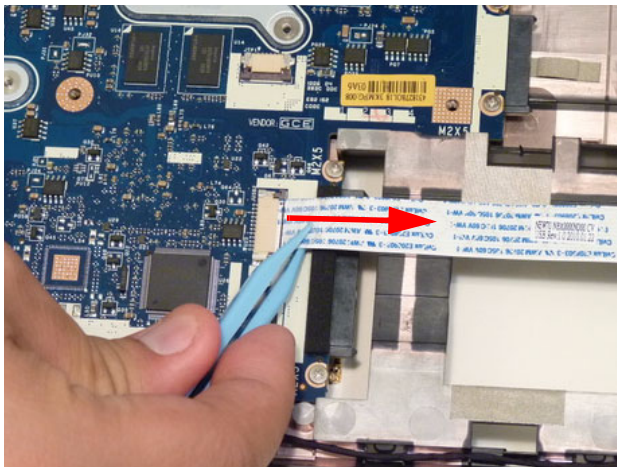
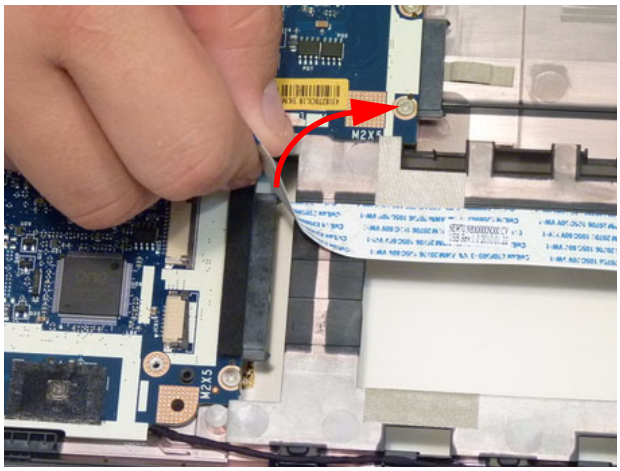
Removing the USB Board

1. See “Removing the Upper Cover” on page 61.
2. Unlock the mainboard to USB cable connector.

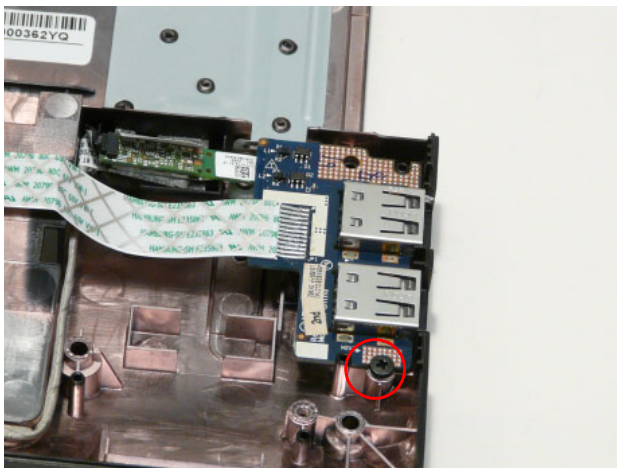




3. Peel the cable off the adhesive as shown.



4. Remove one (1) screw from the USB board.



Step	Size	Quantity	Screw Type
USB	M2*3	1	

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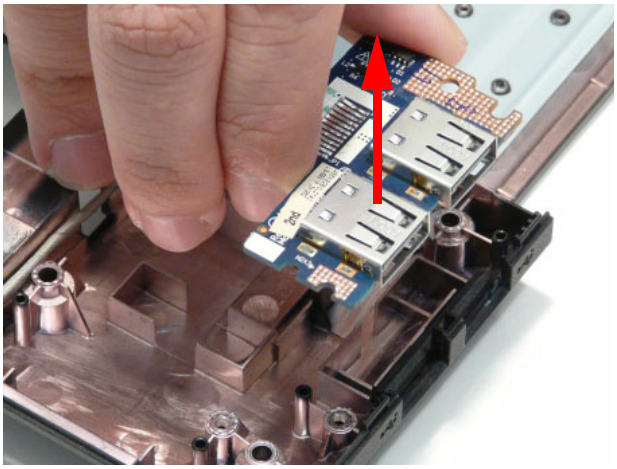
5. Lift the USB board clear of the device.



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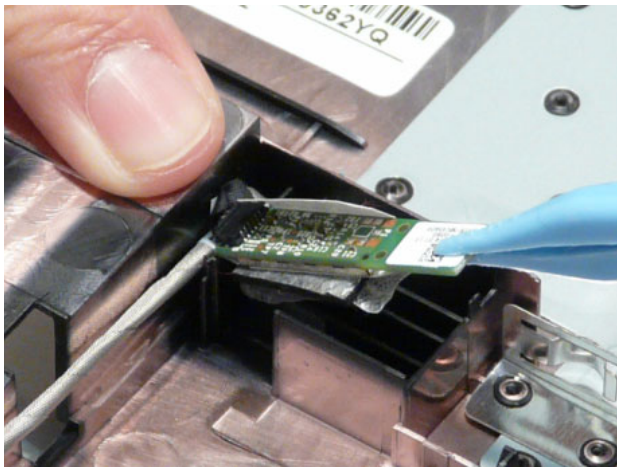
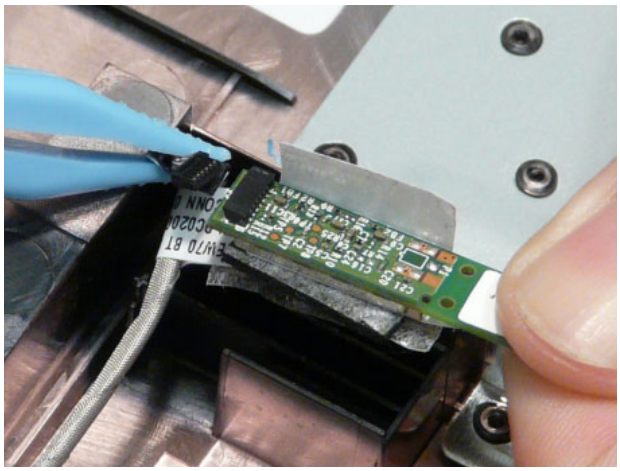
Removing the Bluetooth Board

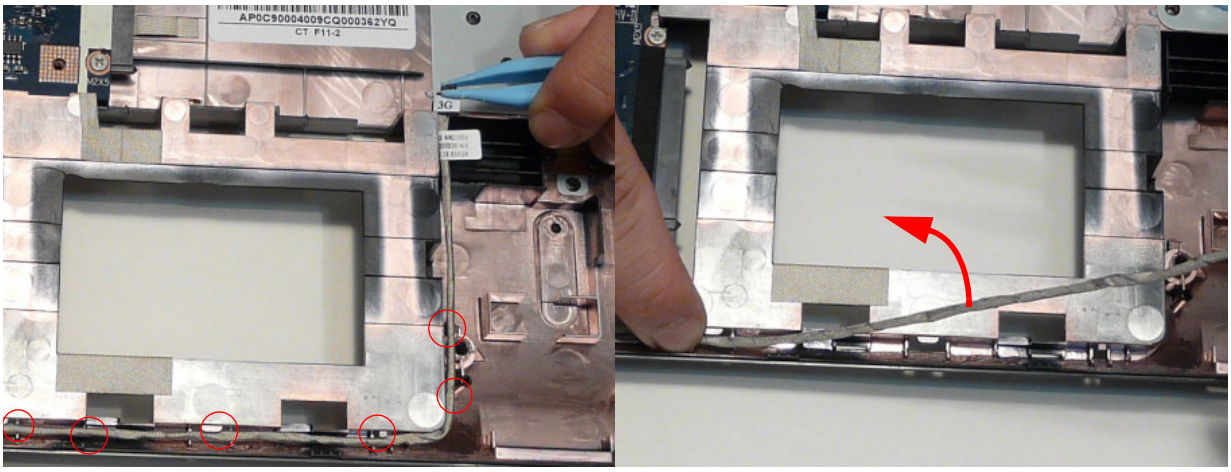
1. See “Removing the Upper Cover” on page 61.
2. Pry the Bluetooth board from the adhesive.



3. Disconnect the mainboard to Bluetooth cable.



4. Lift the Bluetooth board away from the cable channel as shown.



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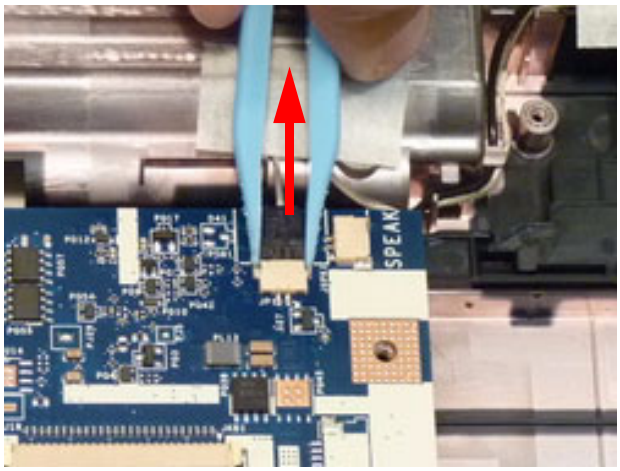
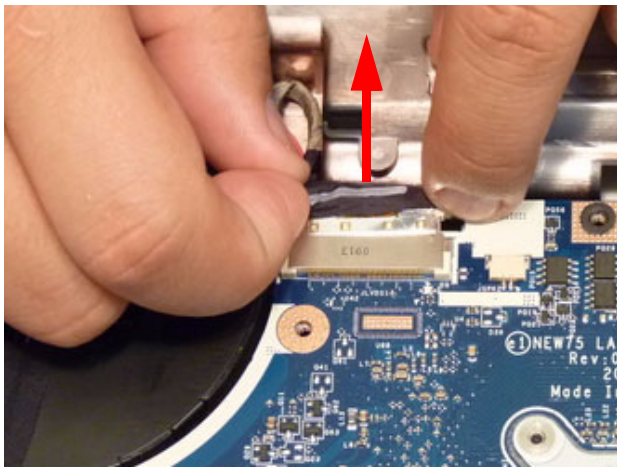
Removing the Mainboard

1. See “Removing the Upper Cover” on page 61.
2. Disconnect the speaker to mainboard cable.



3. Disconnect the LVDS cable.



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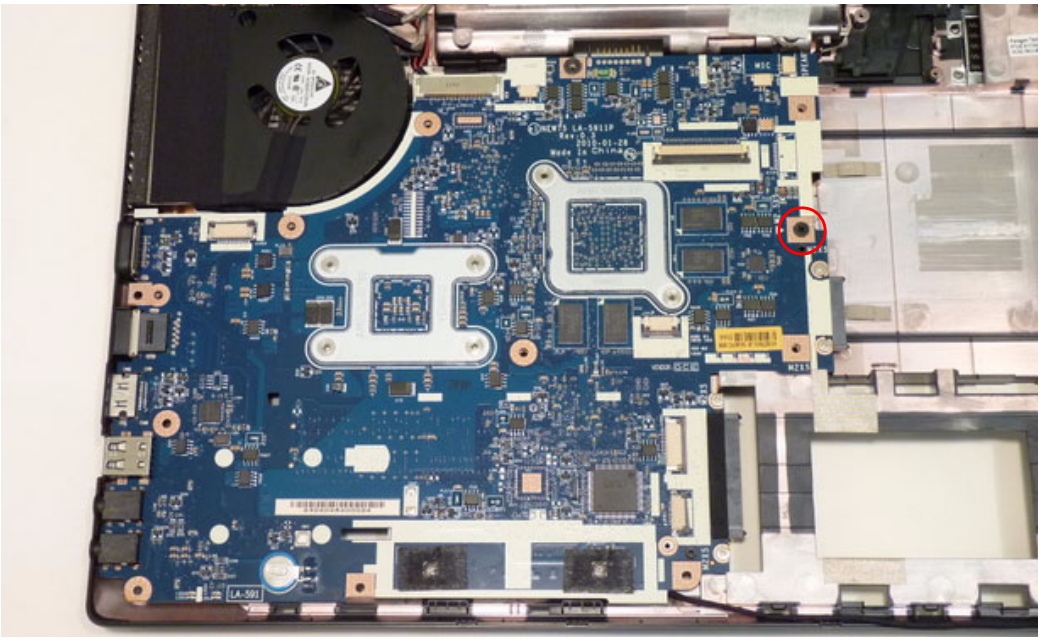
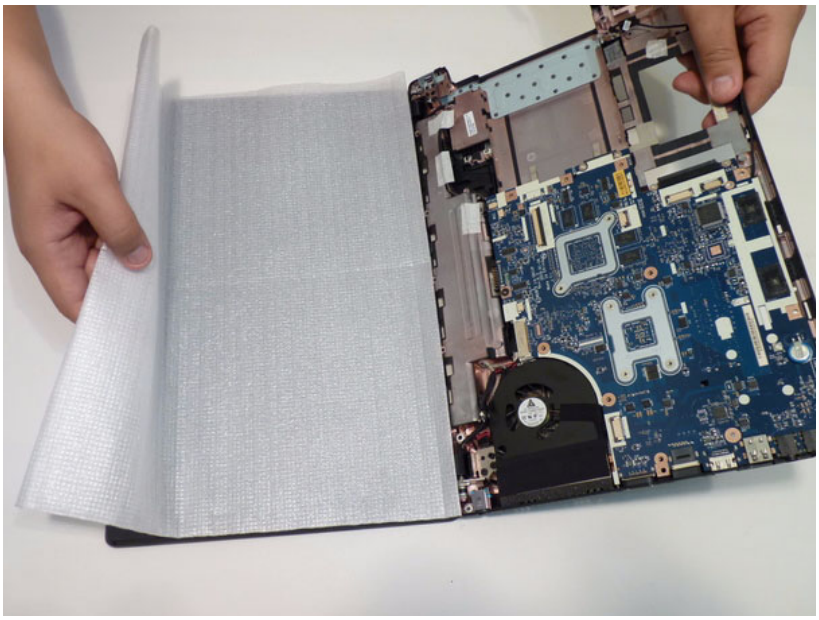
4. Remove the one (1) securing screw from the Mainboard.



Step	Size	Quantity	Screw Type
Mainboard	M2.5*5	1	

5. Place a dust free, protective mat on the lcd screen to aid in the removal of the mainboard.



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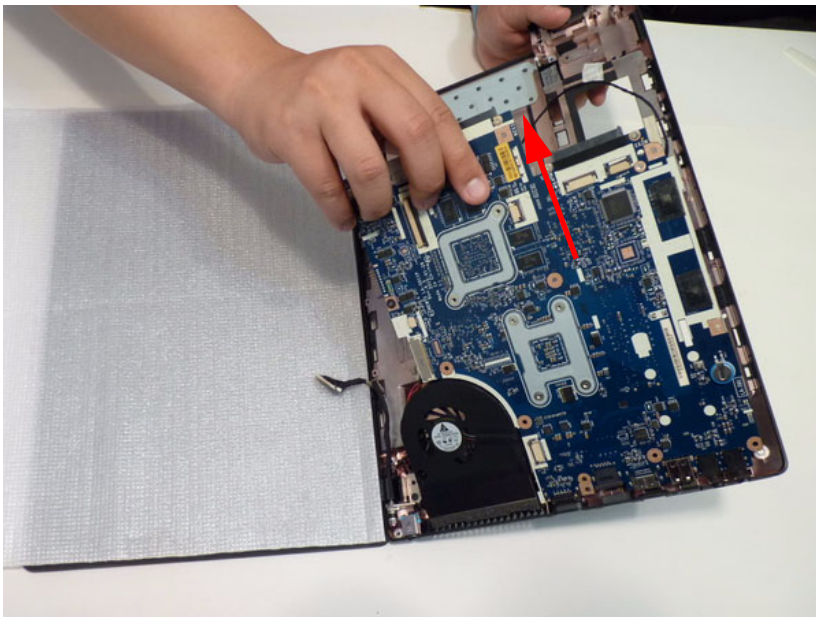
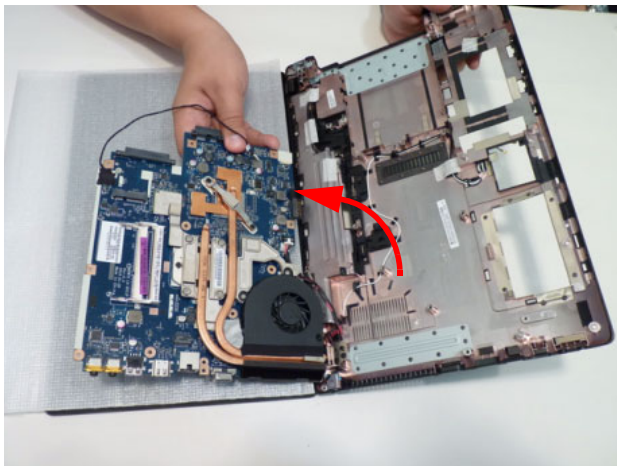
6. Lift the inner edge of the mainboard up and out to free it from the lower case, without removing the mainboard completely from the chassis.

CAUTION: Do not remove the mainboard completely. The mainboard is still connected to the chassis.



7. Carefully turn the mainboard over and place it on the protective mat.

CAUTION: Do not use excessive force when turning the mainboard over as it is still connected to the chassis by the power cable.



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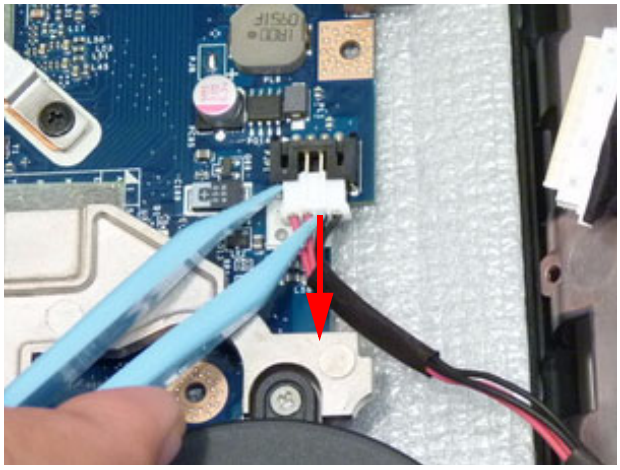
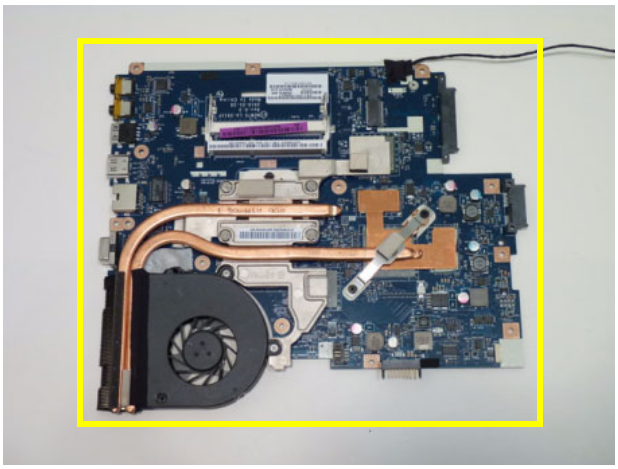
8. Disconnect the power cable.

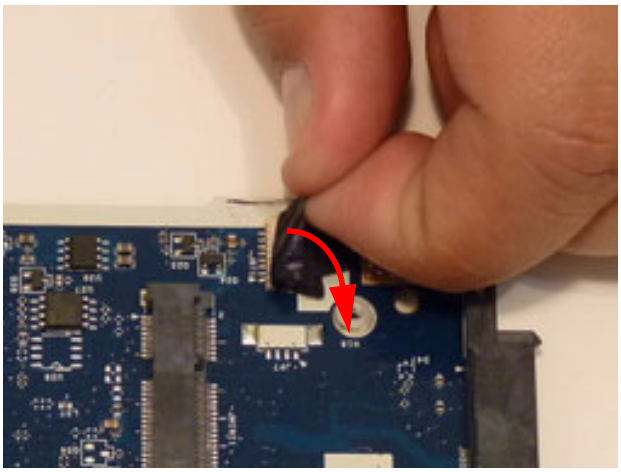


9. Remove the mainboard from the chassis and turn it over.



NOTE: Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in the previous image. Please detach the Circuit board and follow local regulations for disposal.

10. Remove the adhesive tape from the Bluetooth cable.



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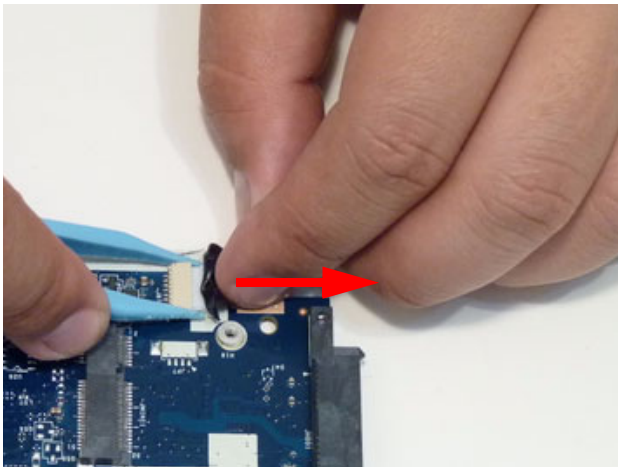
11. Disconnect the Bluetooth to mainboard cable.



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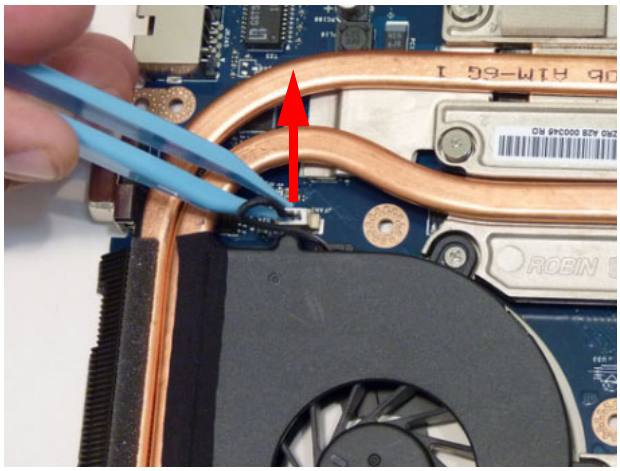
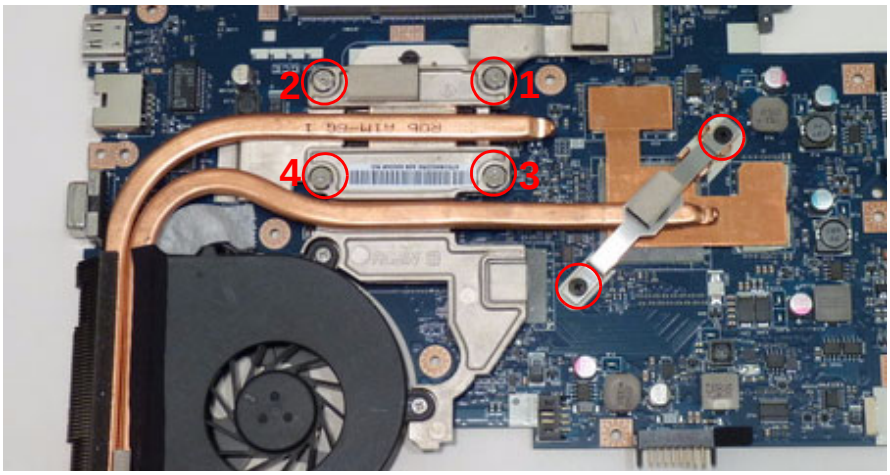
Removing the Thermal Module

1. See “Removing the Upper Cover” on page 61.
2. Disconnect the fan cable.



3. Remove the four (4) securing screws (in reverse numerical order from screw 4 to 1), then the two (2) screws on the GPU.



Step	Size	Quantity	Screw Type
Thermal Module	M2.5*3.2	4	
GPU		2	

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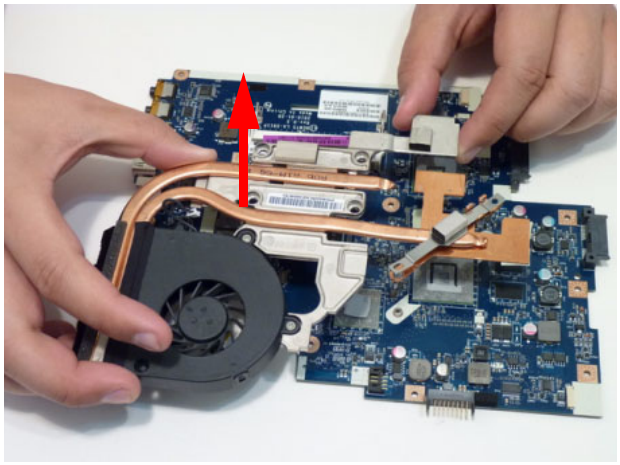
4. Carefully lift the Thermal Module clear of the Mainboard.



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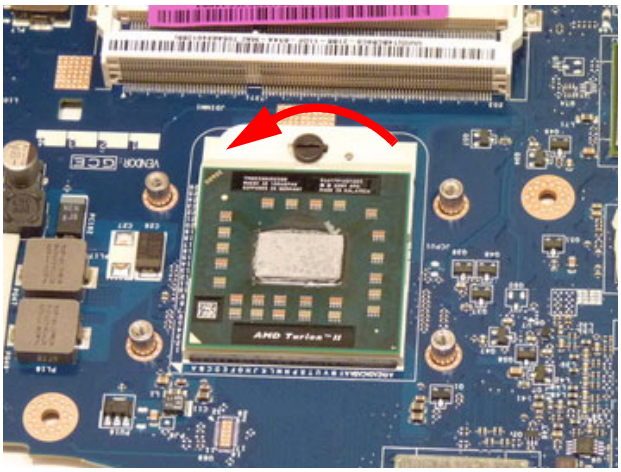
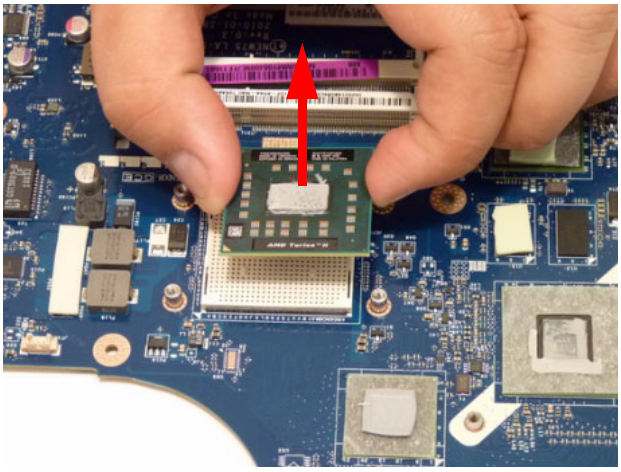
Removing the CPU

IMPORTANT: The pins on the underside of the CPU are very delicate. If they are damaged, the CPU may malfunction. Place the CPU on a clean, dry surface when it is not installed.

1. See “Removing the Thermal Module” on page 81.
2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° counter-clockwise as shown.



3. Lift the CPU clear of the socket as shown.



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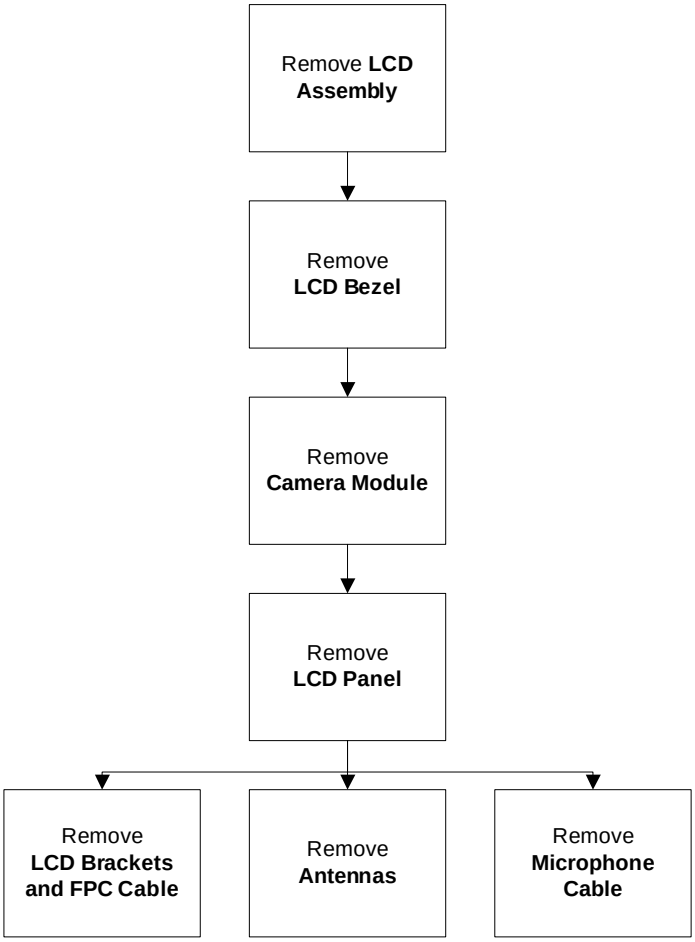
LCD Module Disassembly Process

LCD Module Disassembly Flowchart



Screw List

Step	Screw	Quantity	Part No.
LCD Assy	M2.5*5	4	
LCD Bezel	M2.5*6	2	
LCD Panel	M2.5*5	2	
LCD Brackets	M2*3	6	

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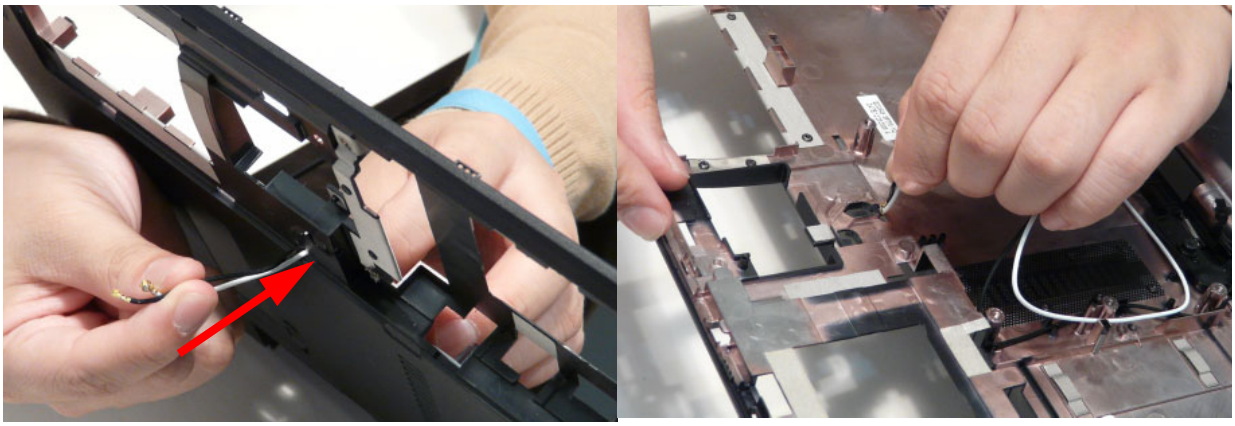
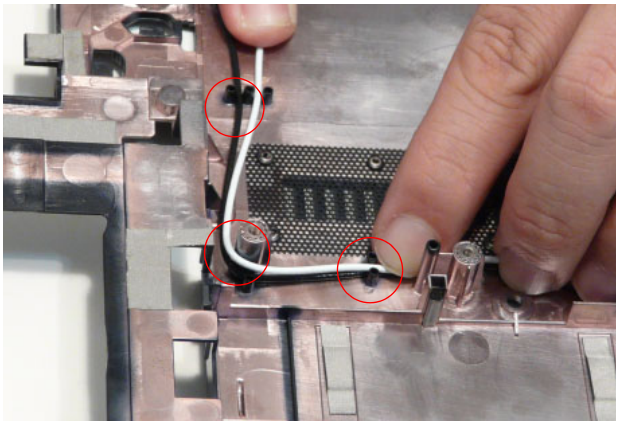
Removing the LCD Assembly

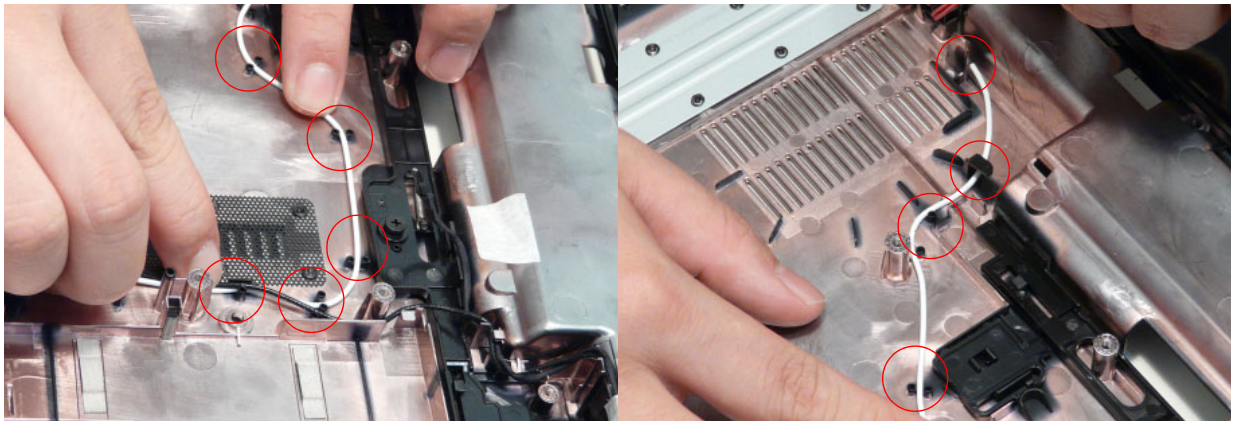
1. See “Removing the Upper Cover” on page 61.
2. Turn the device over and pass the black and white antenna cables through the lower cover.



3. Free the black and white antenna cables from the cable channel as shown.



4. Continue removing the white antenna cable from the cable channel.



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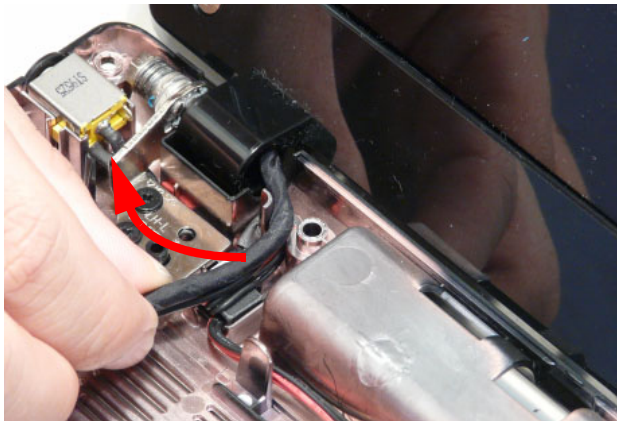
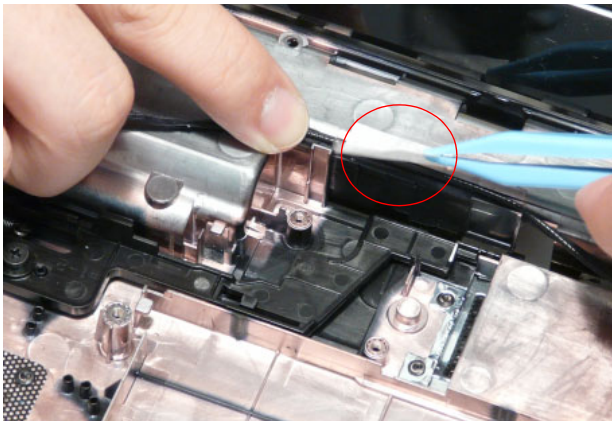
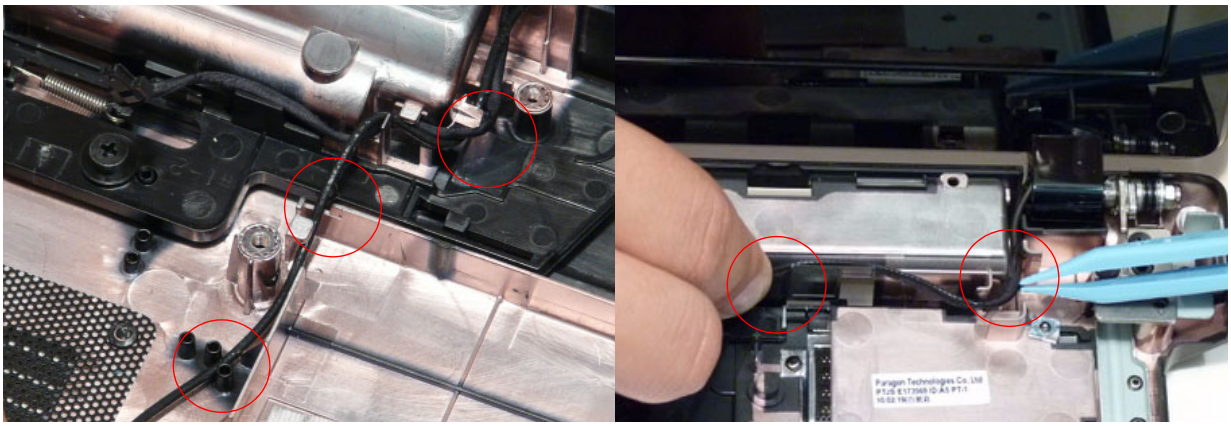
5. Remove the LVDS cable from the cable channel.

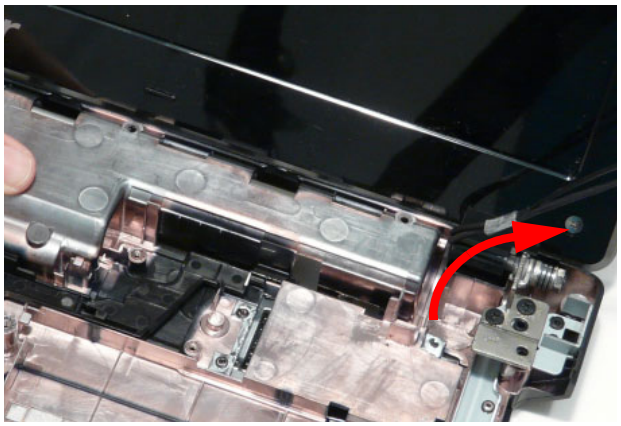


6. Remove the adhesive tape from the black antenna cable.



7. Free the cable from the cable channel as shown.





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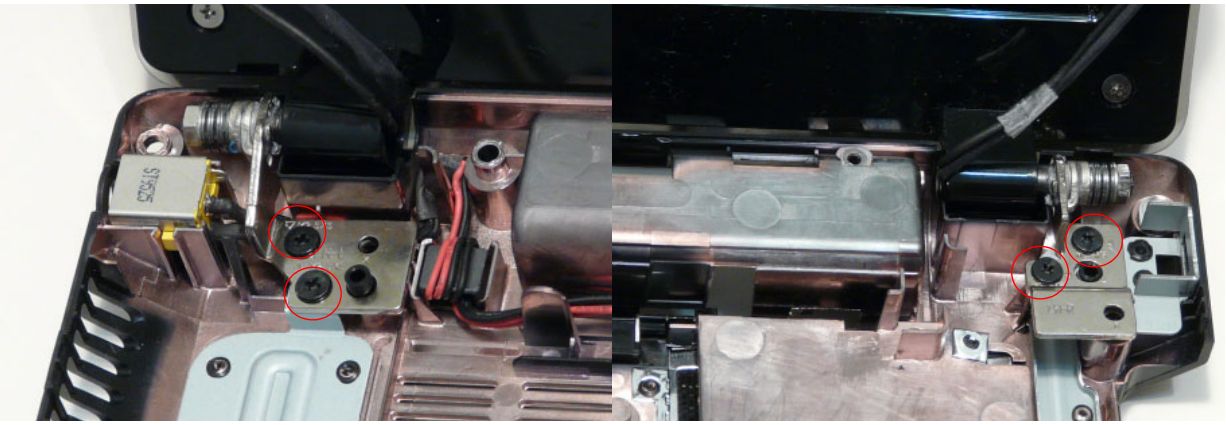
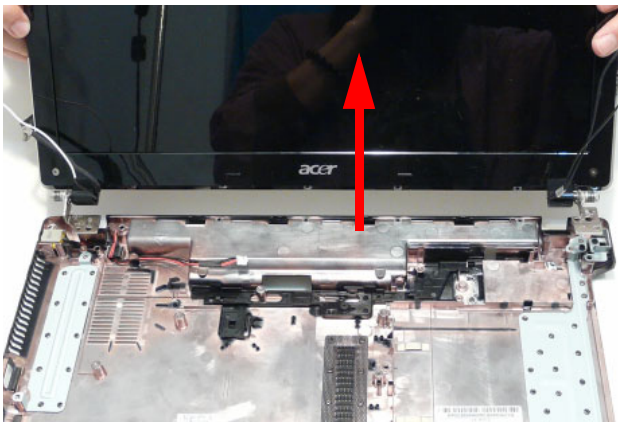
8. Remove four (4) screws from the LCD assembly.



Step	Size	Quantity	Screw Type
LCD assembly	M2.5*5	4	

9. Remove the LCD assembly from the lower cover.



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Removing the LCD Bezel

1. See “Removing the LCD Assembly” on page 85.
2. Remove the two bezel screw caps and screws.

Step	Size	Quantity	Screw Type
LCD Bezel	M2.5*6	2	

3. Starting from the bottom edge of the bezel, pry the bezel upwards and away from the panel. Work along the right side toward the top of the bezel, prying the covers apart. Continue along the top edge and down the left side to remove the bezel.

NOTE: If necessary, use a pry to lift up the outside edges of the bezel.

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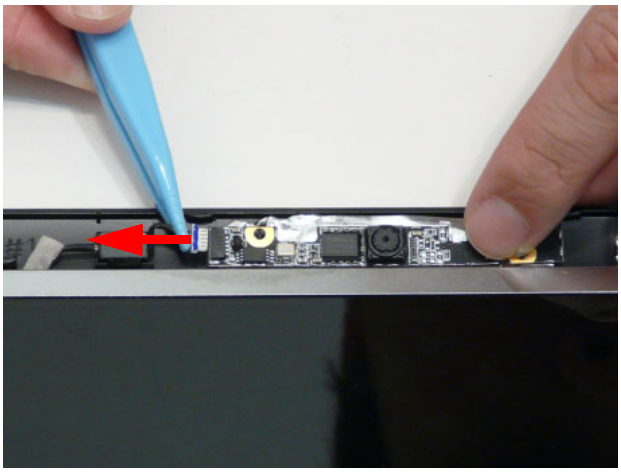
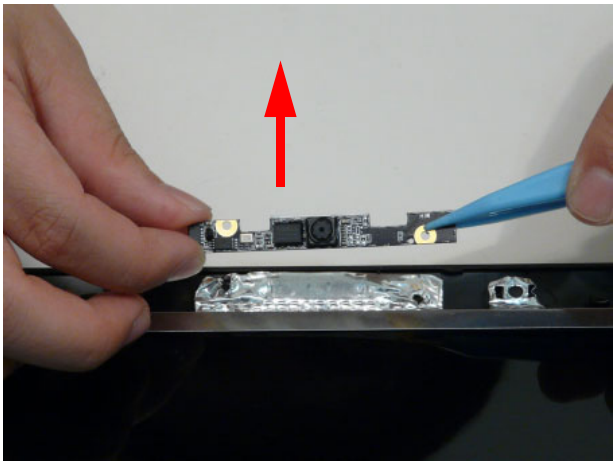
Removing the Camera Module

1. See “Removing the LCD Assembly” on page 85.
2. Locate the Camera Module at the top of the LCD Module and disconnect the camera cable.



3. Remove the Camera from the module.



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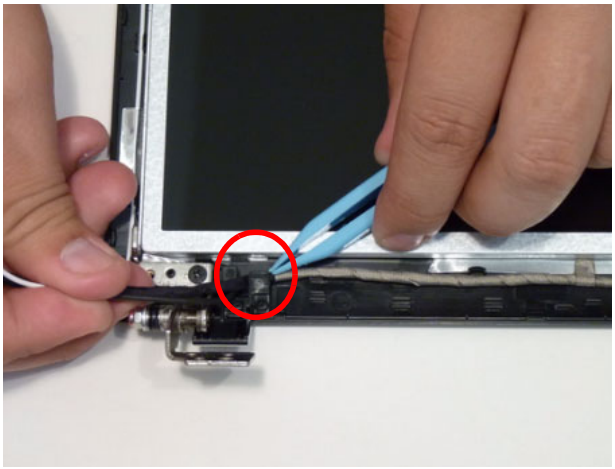
Removing the LCD Panel

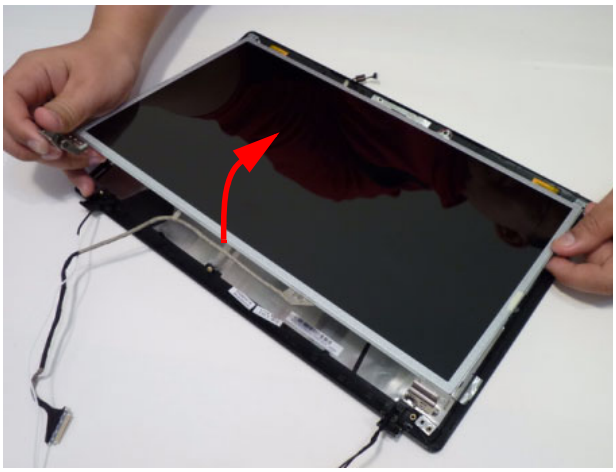
1. See “Removing the Camera Module” on page 89.
2. Remove the four (4) securing screws from the LCD Panel.

Step	Size	Quantity	Screw Type
LCD Panel	M2.5*5	4	

3. Remove the adhesive strip holding the cables in place.



4. Lift the LCD Panel clear of the module.



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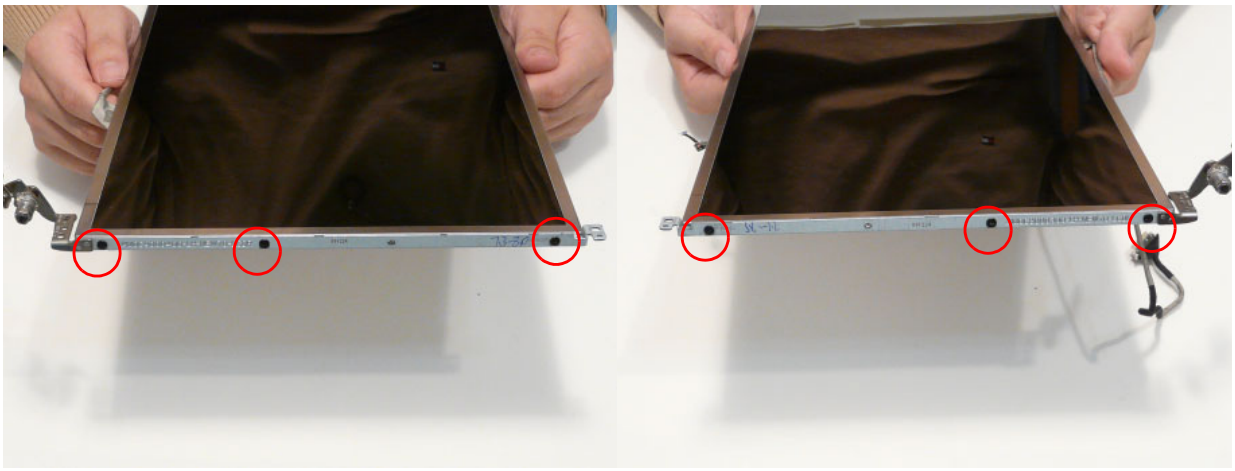
Removing the LCD Brackets and LVDS Cable

1. See “Removing the LCD Panel” on page 90.
2. Remove the six (6) securing screws (three on each side) from the LCD Panel brackets.



Step	Size	Quantity	Screw Type
LCD Brackets	M2*3	6	

3. Remove the LCD brackets by pulling away from the LCD Panel.

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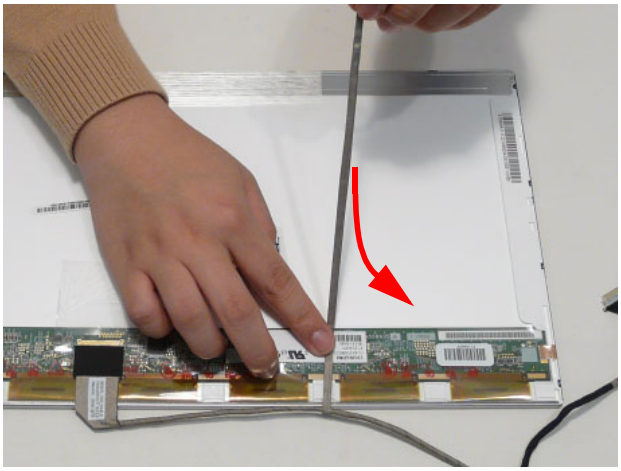
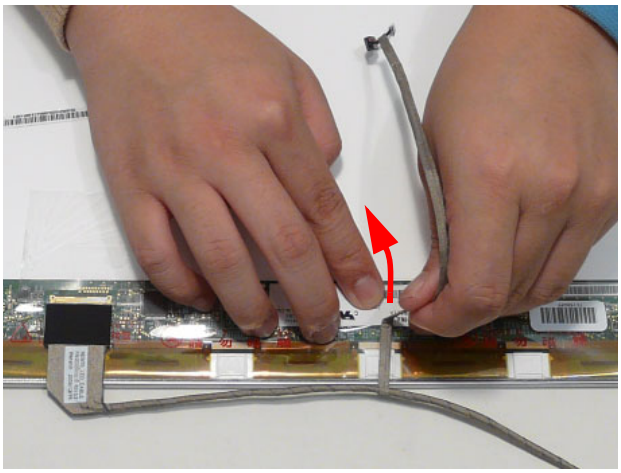
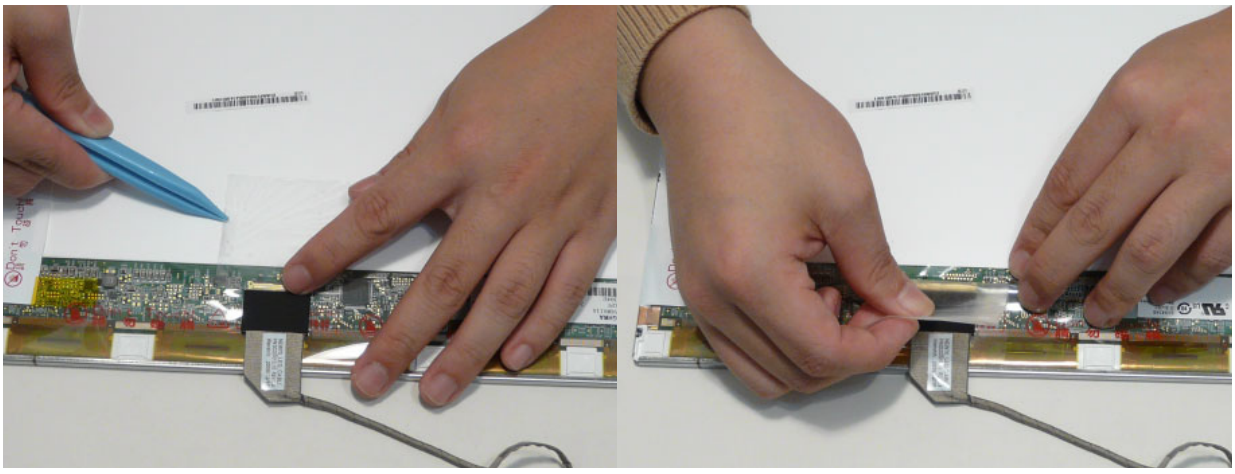
4. Turn the LCD panel over to expose the rear. Pull the cable up as shown.



5. Remove the adhesive tape from the cable.



6. Peel back the mylar securing the LVDS cable.



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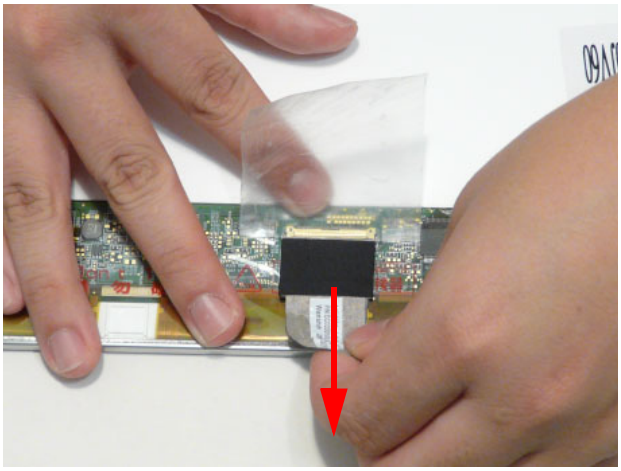
7. Disconnect the LVDS cable from the panel.



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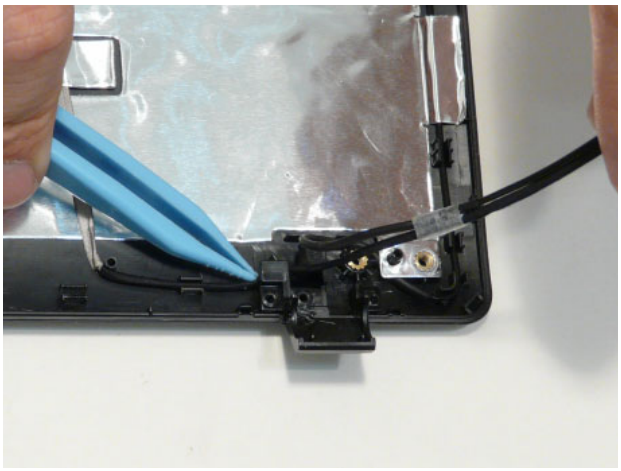
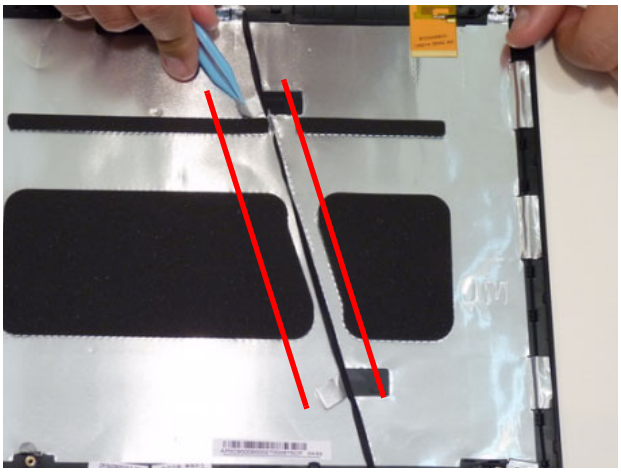
Removing the Microphone Cable

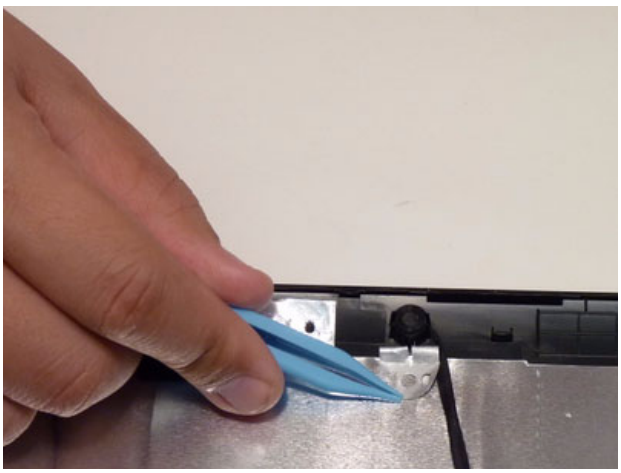
1. See “Removing the LCD Panel” on page 90.
2. Remove the cable bundle from the hinge channel.



3. Peel back the foil tabs and remove the microphone cable from the cable channel.



4. Peel back the foil tab on the microphone set.



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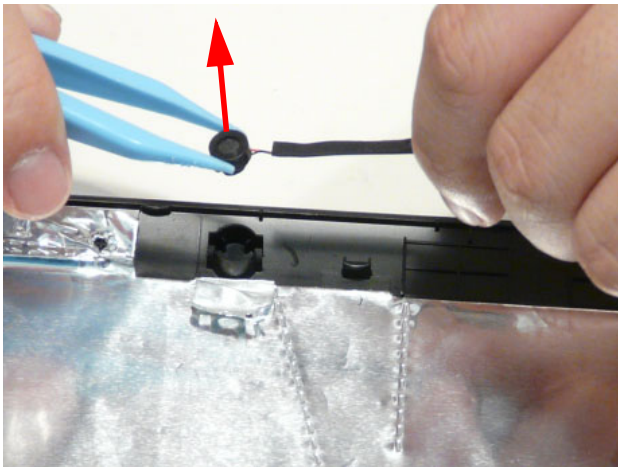
5. Lift the microphone set and cable clear of the LCD cover.



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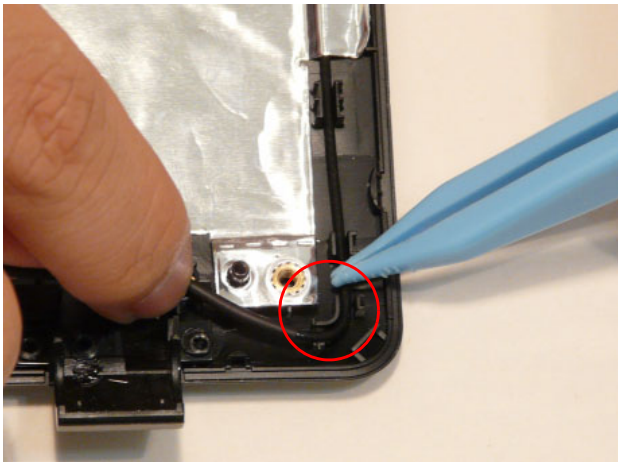
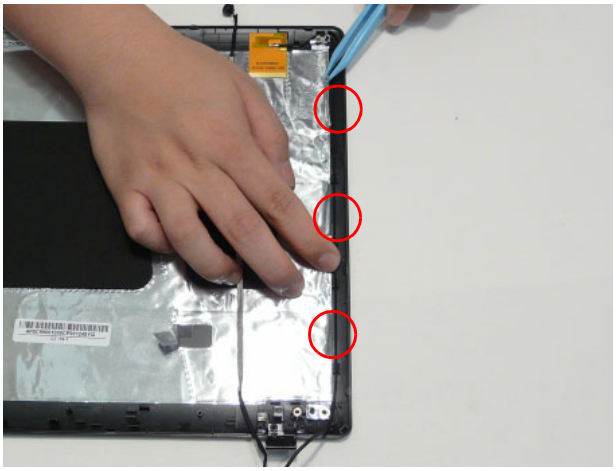
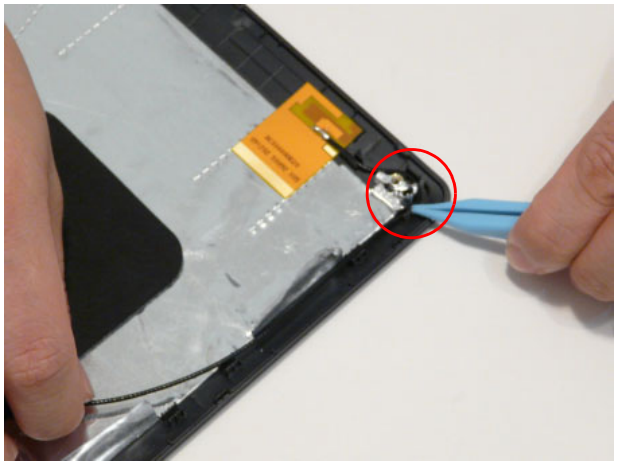
Removing the Antennas

1. See “Removing the LCD Panel” on page 90.
2. Remove the black antenna from the cable channel.

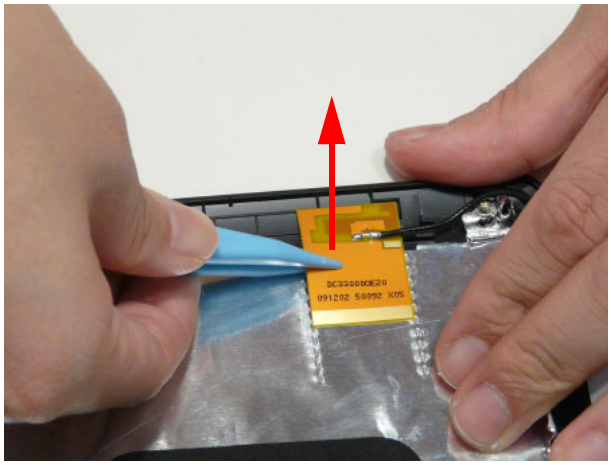


3. Peel back the foil tabs and remove the cable from the cable channel.





4. Pry the antenna assembly clear of the device.



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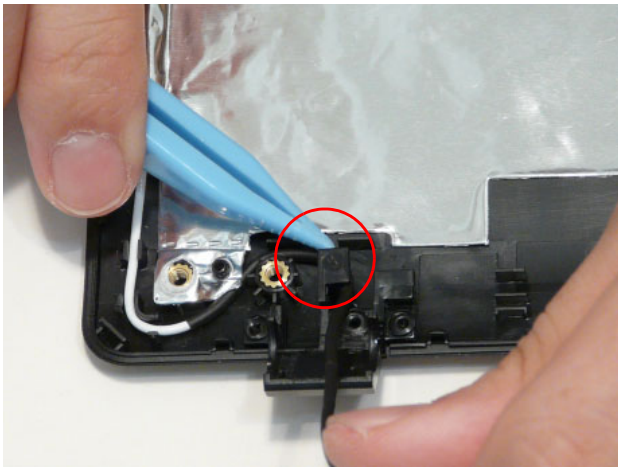
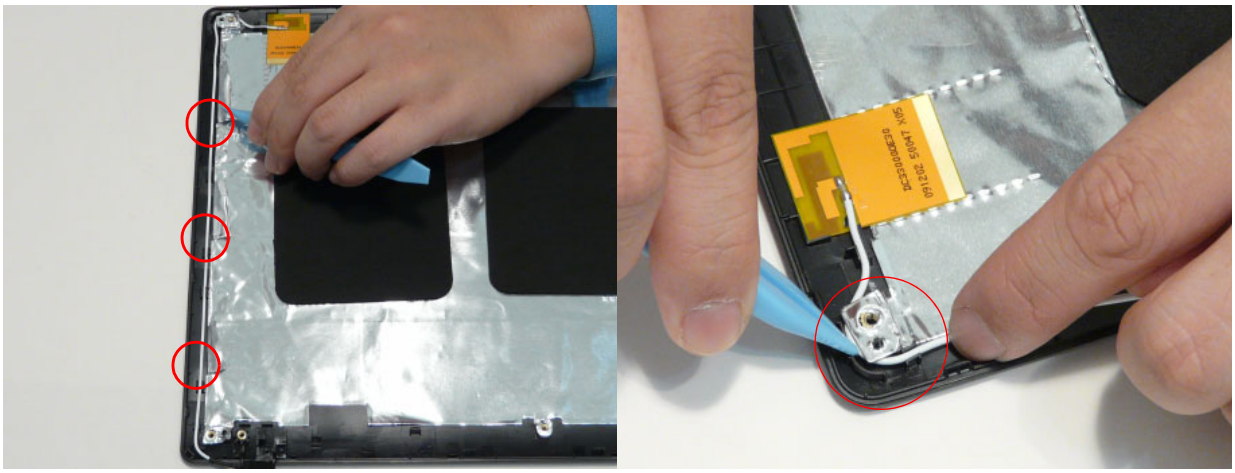
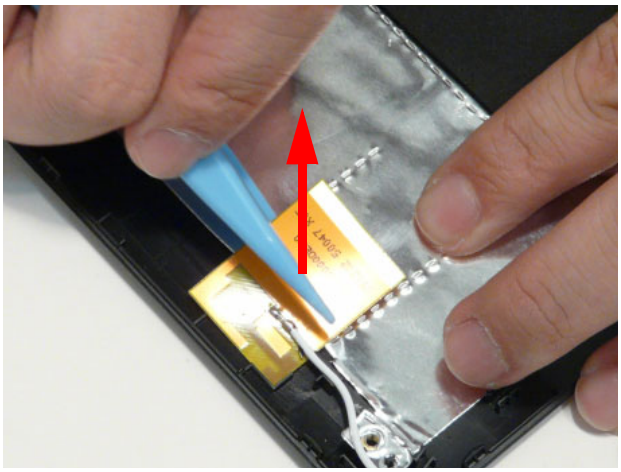
5. Remove the white antenna from the hinge channel.



6. Peel back the foil tabs and remove the cable from the cable channel.



7. Pry the antenna assembly clear of the device.



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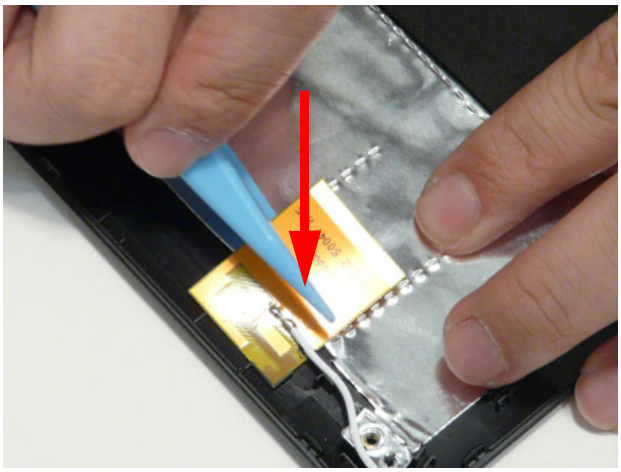
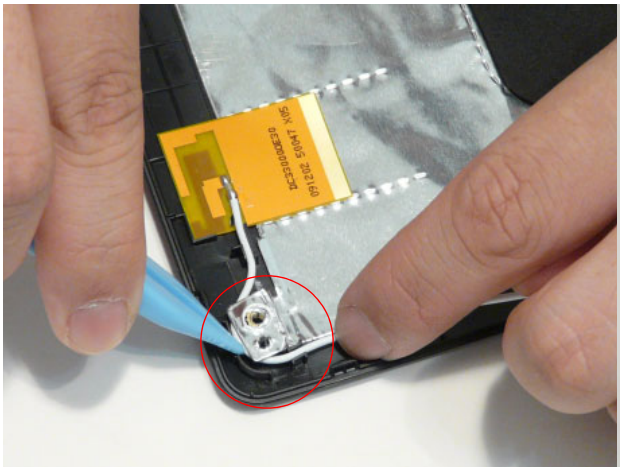
LCD Module Reassembly Procedure

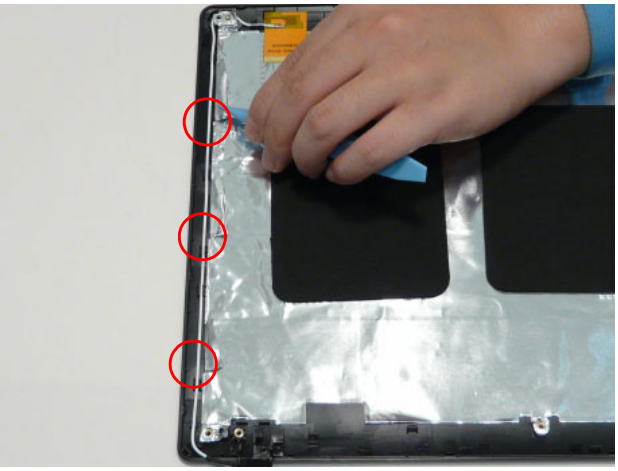
Replacing the Antennas

1. Adhere the white antenna assembly to the LCD cover.

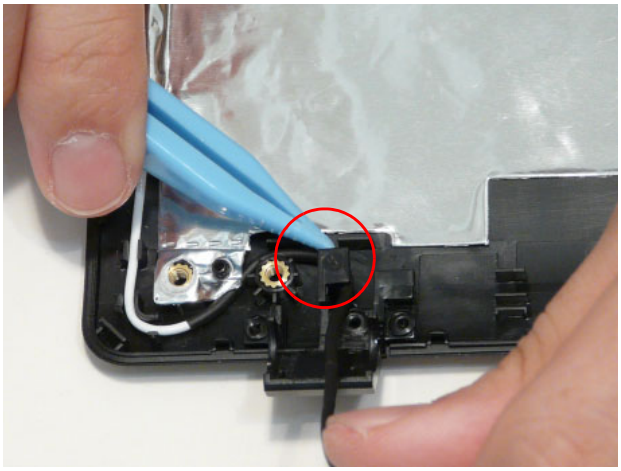


2. Run the cable along the cable channel and fold over the foil tabs to secure the cable in place.





3. Run the white antenna along the hinge channel.



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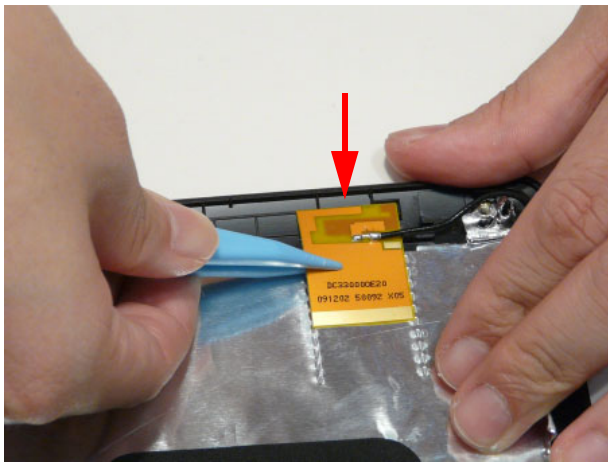
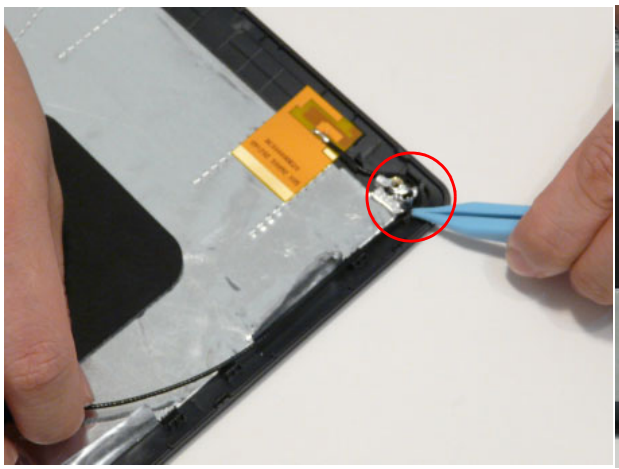
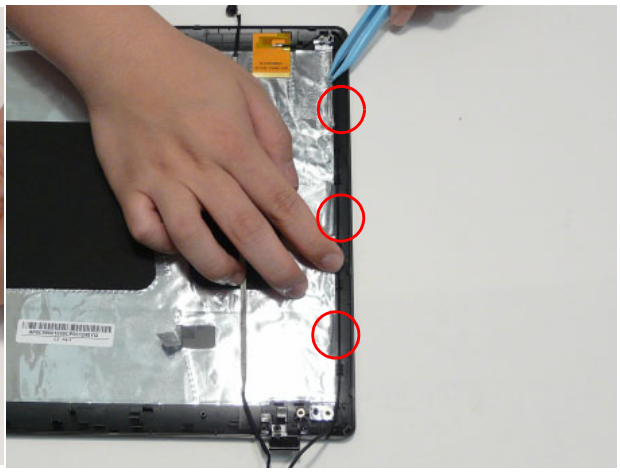
4. Adhere the black antenna assembly on the LCD cover.

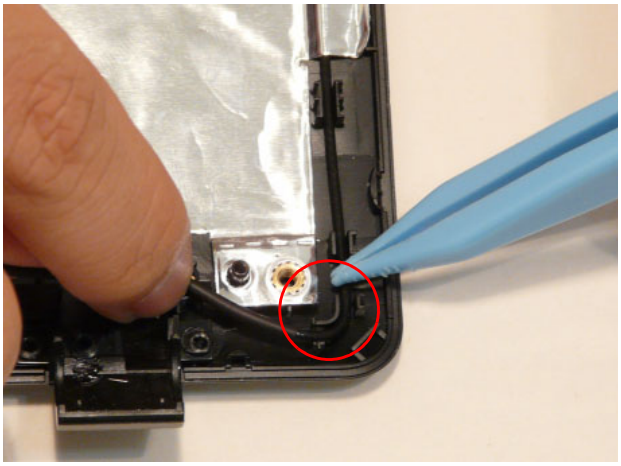


5. Run the cable along the cable channel and fold over the foil tabs to secure the cable in place.





6. Run the black antenna cable along the cable channel.



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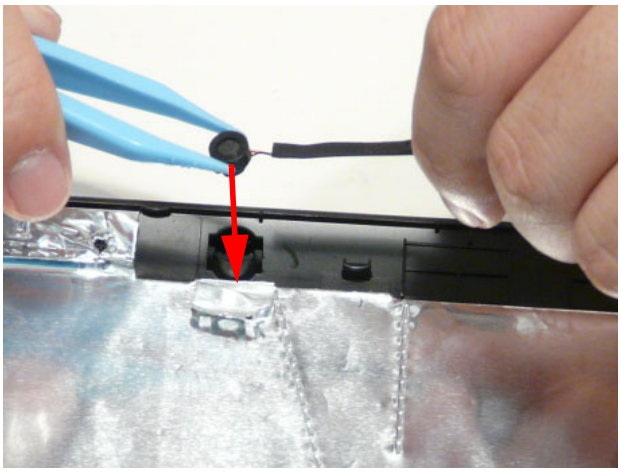
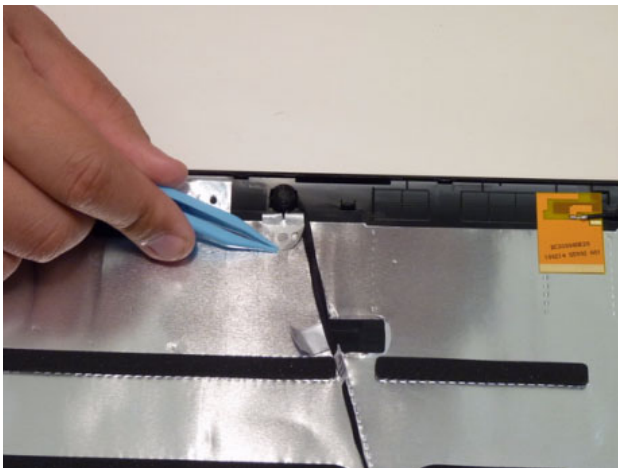
Replacing the Microphone Cable

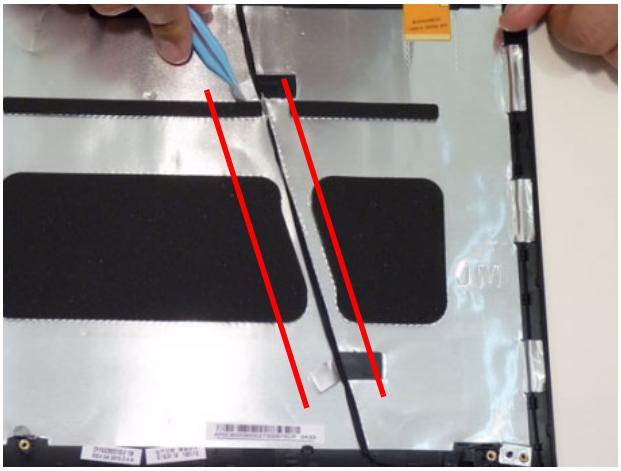
1. Place the microphone set in the panel.



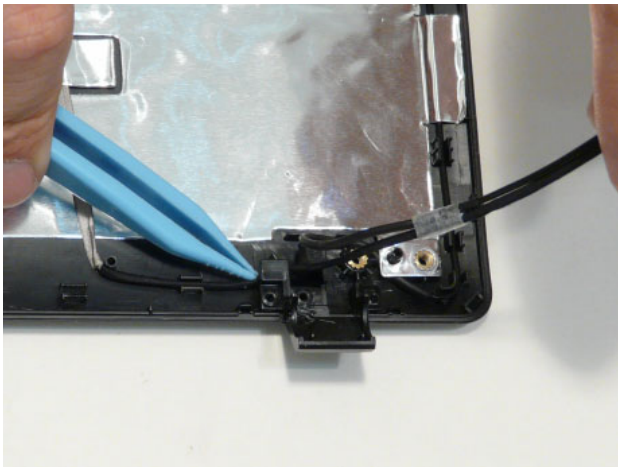
2. Run the cable along the cable channel.



3. Fold over the foil tabs and continue running the microphone cable along the cable channel indicated between the red callouts.



4. Run the cable bundle along the hinge channel.



IMPORTANT: Ensure that the LCD cable runs between the callouts to avoid trapping when the panel is replaced in the LCD Module.

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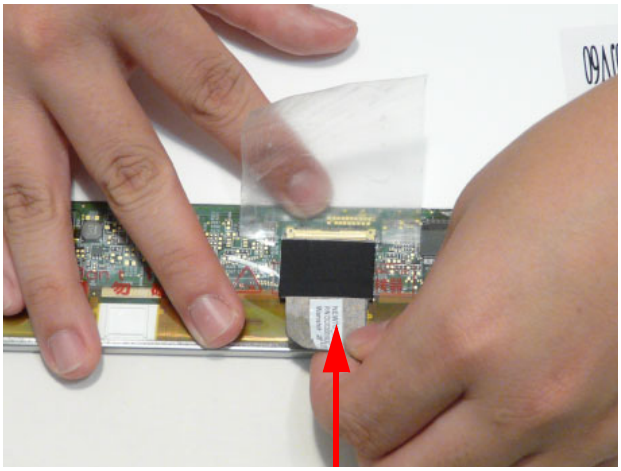
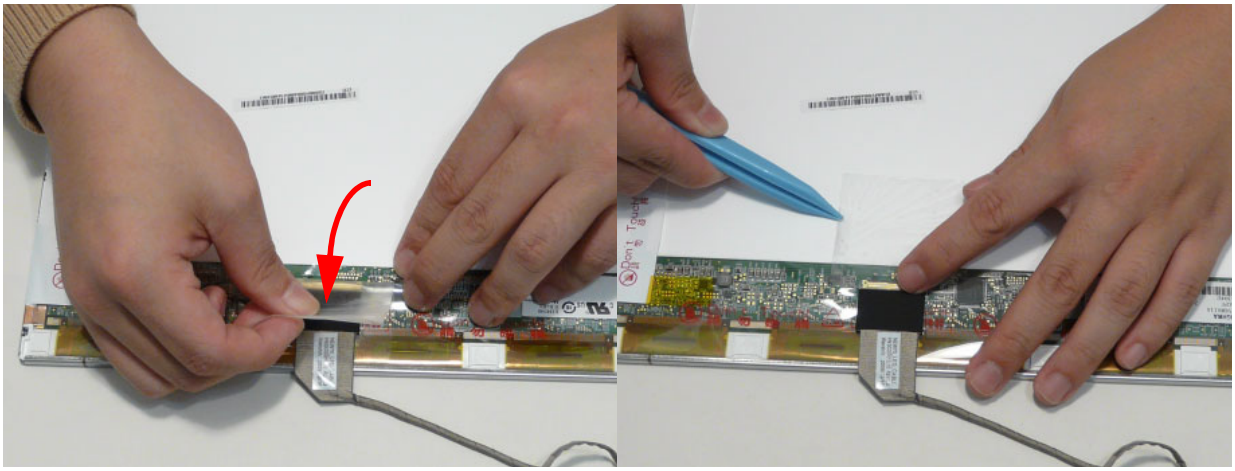
Replacing the LCD Brackets and LVDS Cable

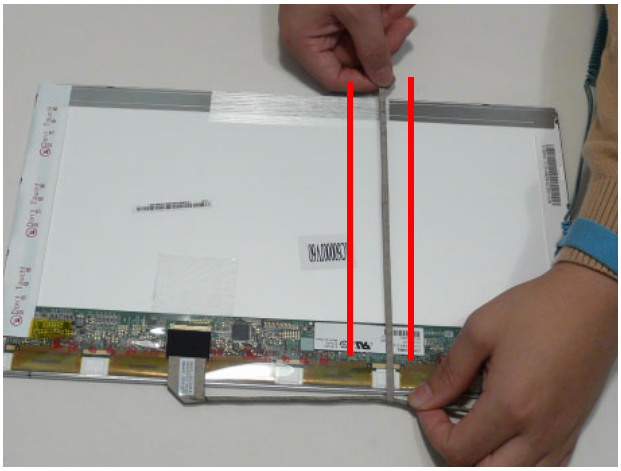
1. Connect the LVDS cable to the LCD panel.



2. Adhere the LVDS mylar to the LCD panel.



3. Adhere the LVDS cable to the panel by running it between the callouts as shown.



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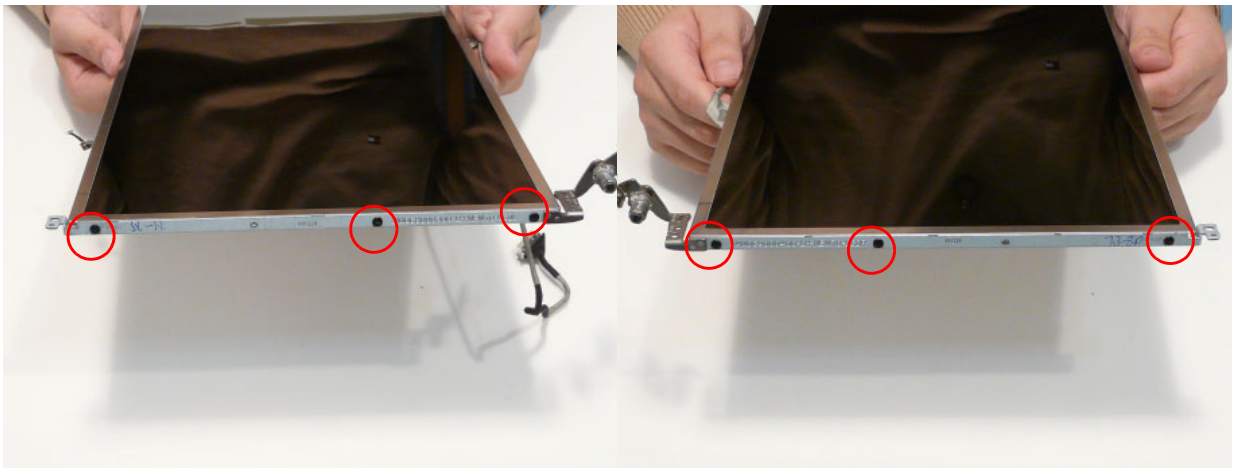
4. Attach the LCD brackets to the LCD Panel.

5. Replace six (6) securing screws (three on each side) of the LCD Panel brackets.



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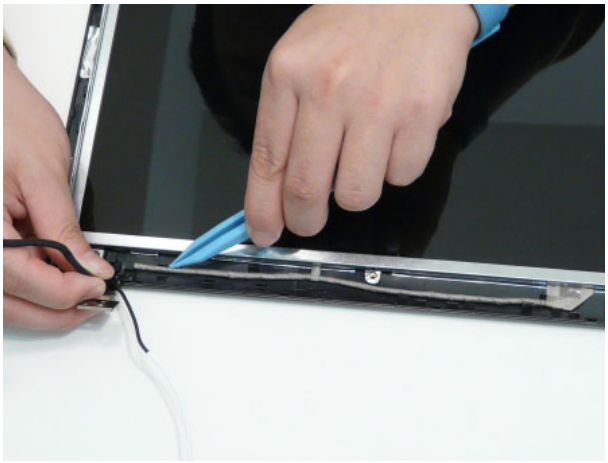
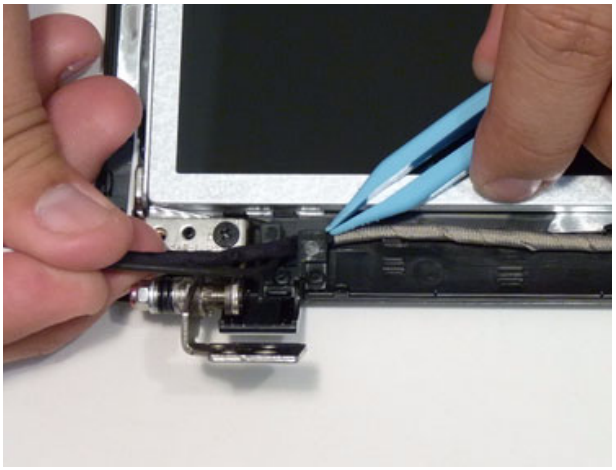
Replacing the LCD Panel

1. Place the LCD Panel in the module as shown.

2. Run the cable along the channel in the LCD Module as shown.



3. Run the cable through the left hinge channel.



4. Secure the panel using four (4) securing screws.

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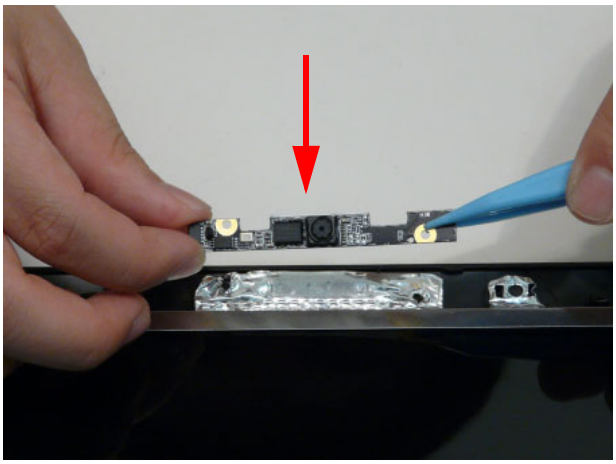
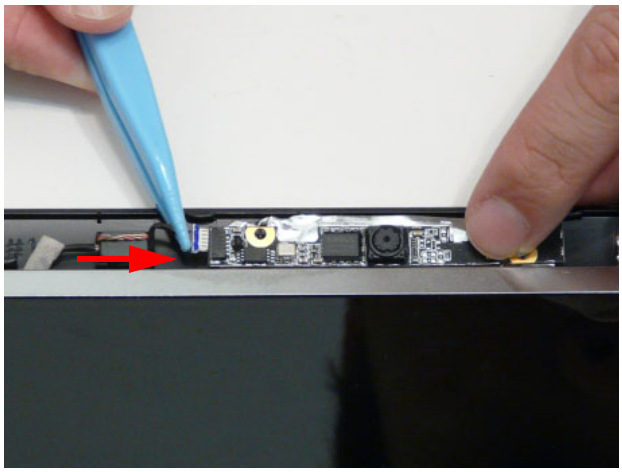
Replacing the Camera Module

1. Place the Camera in the module.



2. Connect the camera cable.



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Replacing the LCD Bezel

1. Replace the bezel and press down until there are no gaps between the bezel and the LCD Module.

   IMPORTANT: Ensure that the LCD cables pass through the hinge wells and are not trapped by the bezel.

2. Replace the two (2) screws and screw caps.

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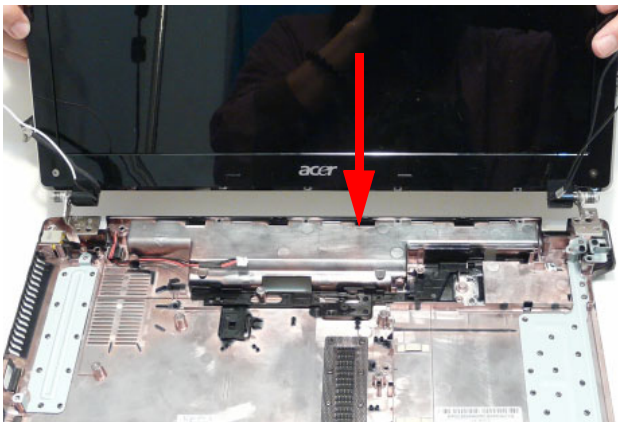
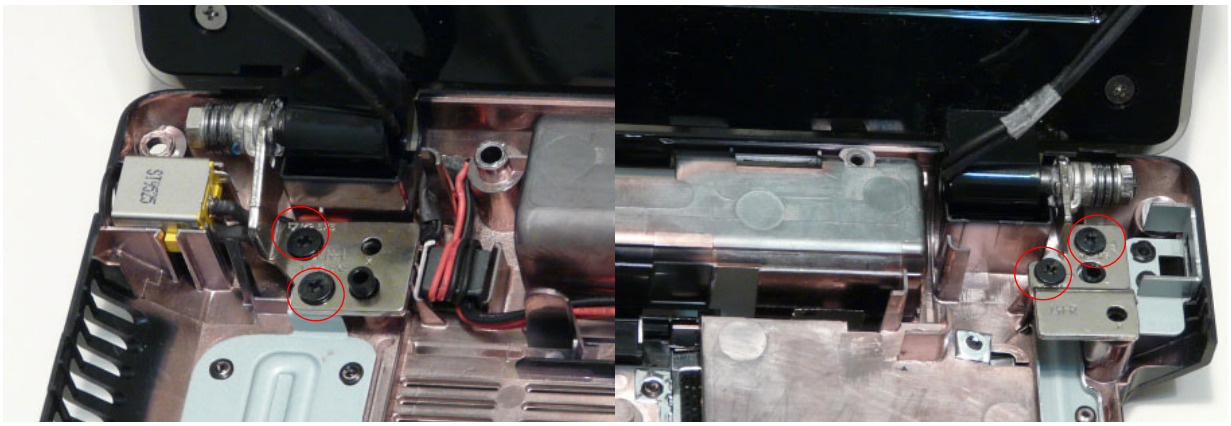
Replacing the LCD Assembly

1. Place the LCD assembly on the lower cover.



2. Secure the LCD assembly using four (4) screws.



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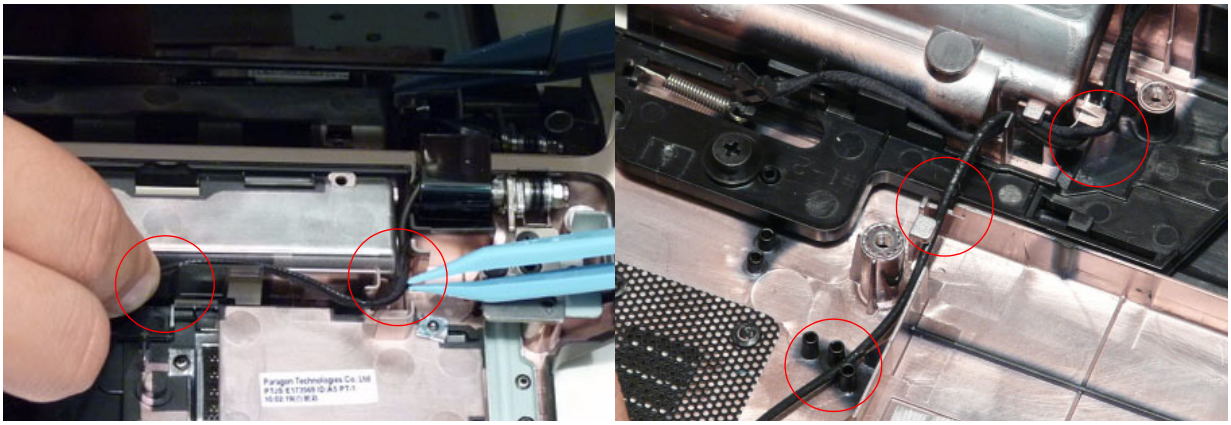
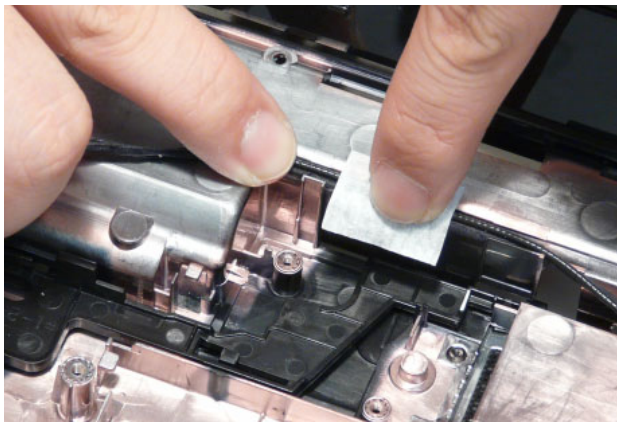
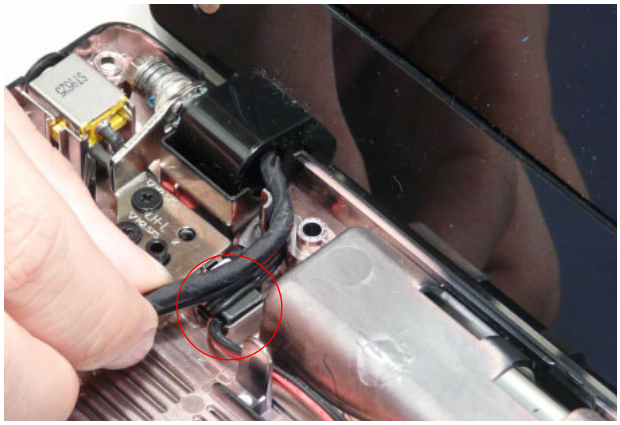
3. Run the black antenna cable along the cable channel.



4. Replace the adhesive tape to secure the cable to the chassis.



5. Near the left hinge, run the LVDS cable along the cable channel.



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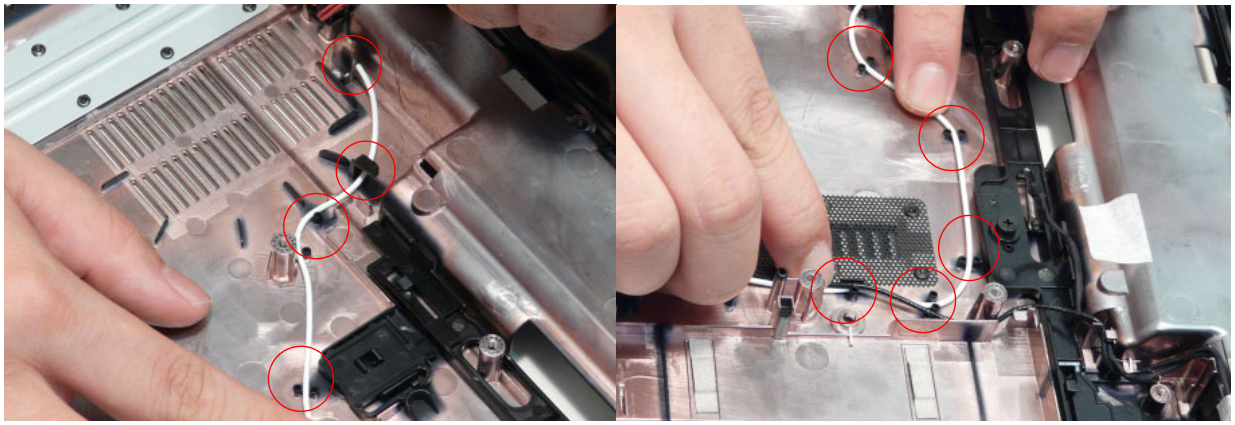
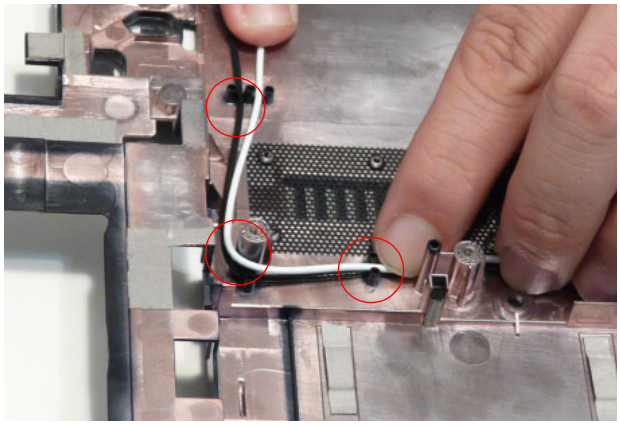
6. Run the white antenna cable along the cable channel as shown.



7. Continue running the black and white antenna cables along the cable channel.



8. Pass the black and white antenna cables through the lower cover.

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Main Module Reassembly Procedure

Replacing the CPU

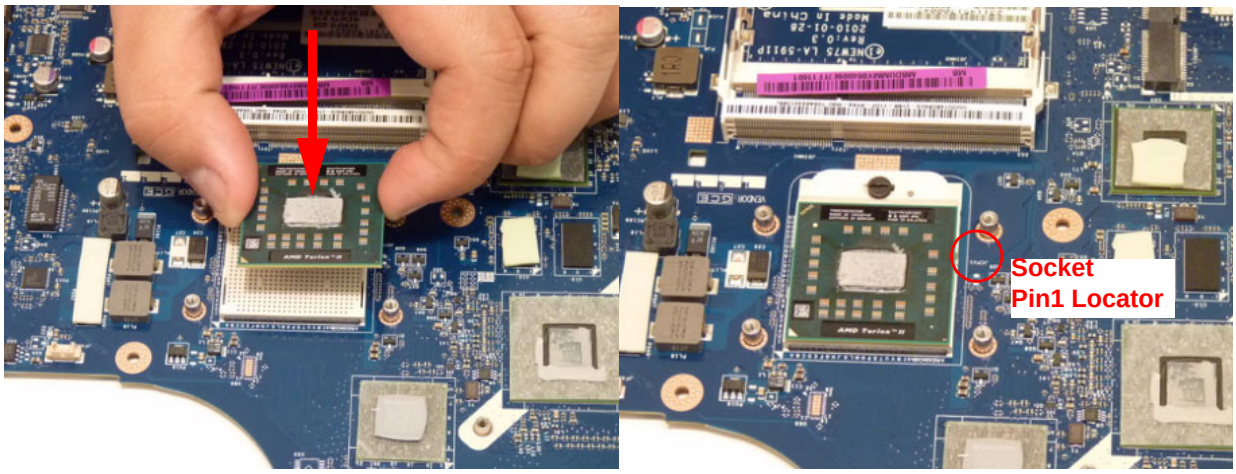
IMPORTANT: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the CPU.

The following thermal grease types are approved for use:

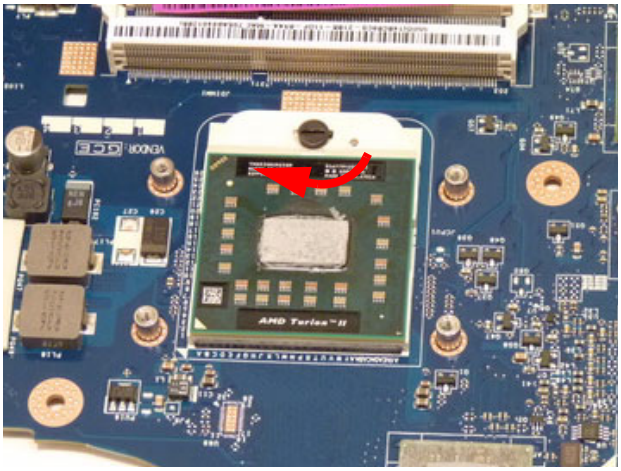
- N-302 Dimand TIM Grease
- Honeywell

IMPORTANT: The CPU has a Pin1 locator that must be positioned corresponding to the marker on the CPU socket.

1. Place the CPU into the CPU socket as shown, taking note of the Pin1 locator.



2. Using a flat-bladed screw driver, rotate the CPU locking screw 180° clockwise to secure the CPU in place.



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Replacing the Thermal Module

IMPORTANT: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the Thermal Module.

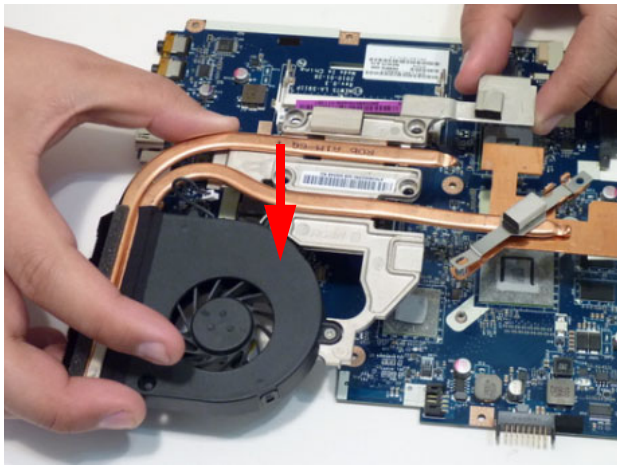
The following thermal grease types are approved for use:

- N-302 Dimand TIM Grease
- Honeywell

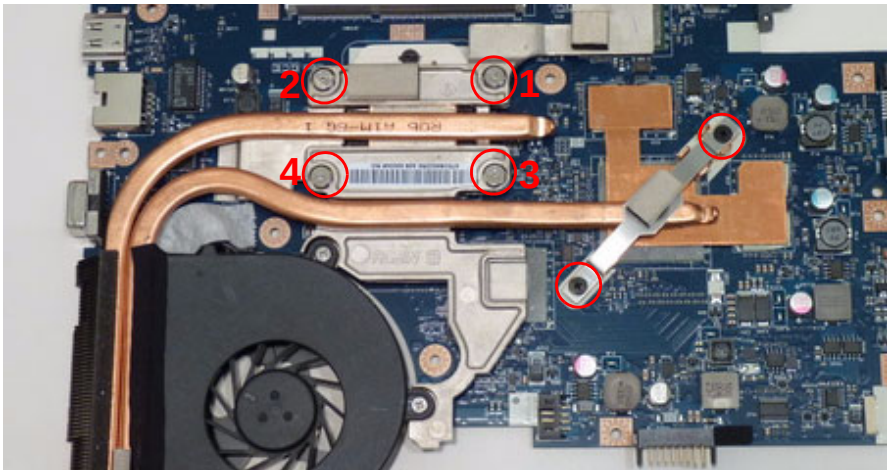
The following thermal pads are approved for use:

- Eapus XR-PE

1. Remove all traces of thermal grease from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone (1), or other approved cleaning agent.
2. Apply a small amount of thermal grease to the centre of the CPU—there is no need to spread the grease manually, the force used during the installation of the Thermal Module is sufficient.
3. Align the screw holes on the Thermal Module and Mainboard then replace the module. Keep the module as level as possible to spread the thermal grease evenly.



4. Replace the four (4) securing screws (in reverse numerical order from screw 4 to 1), then the two (2) screws on the GPU.



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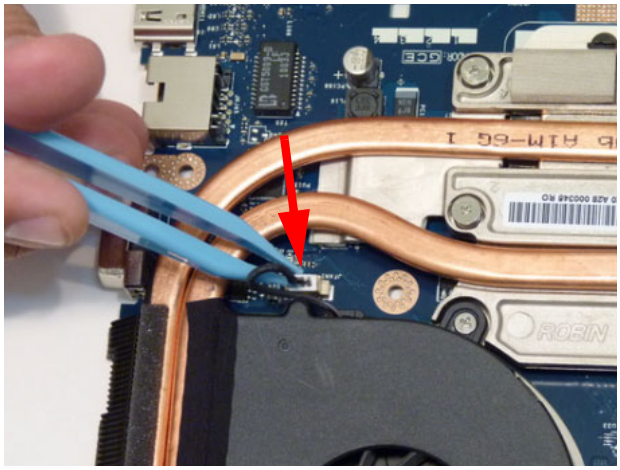
5. Connect the fan cable.



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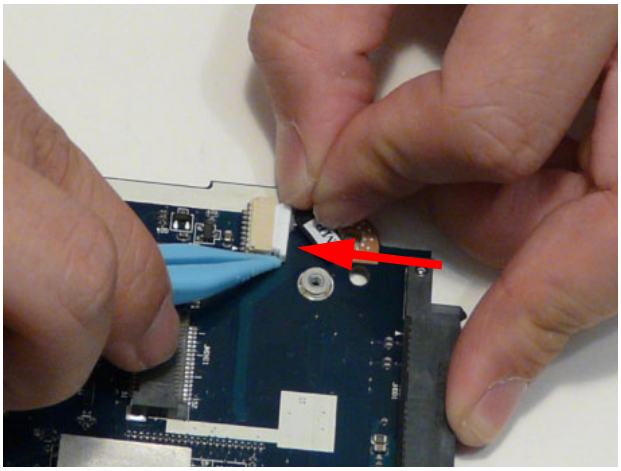
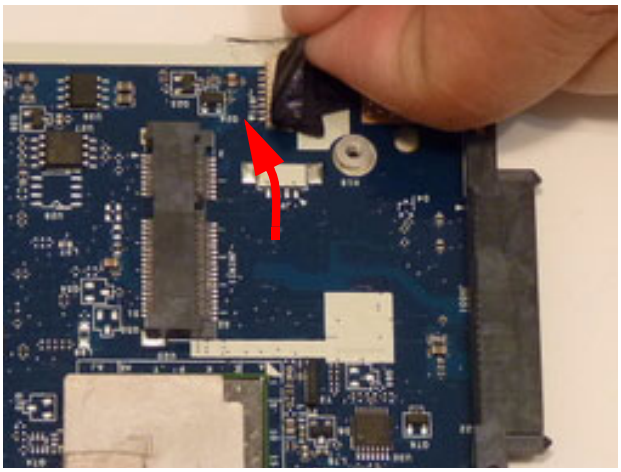
Replacing the Mainboard

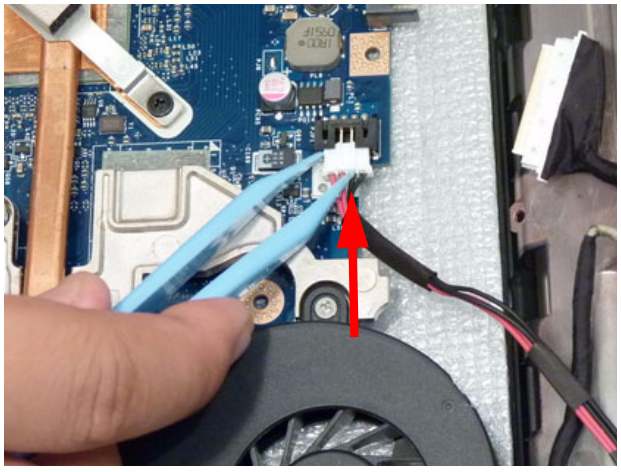
1. Connect the Bluetooth to mainboard cable.



2. Apply the adhesive tape to the Bluetooth cable.



3. Connect the power cable.



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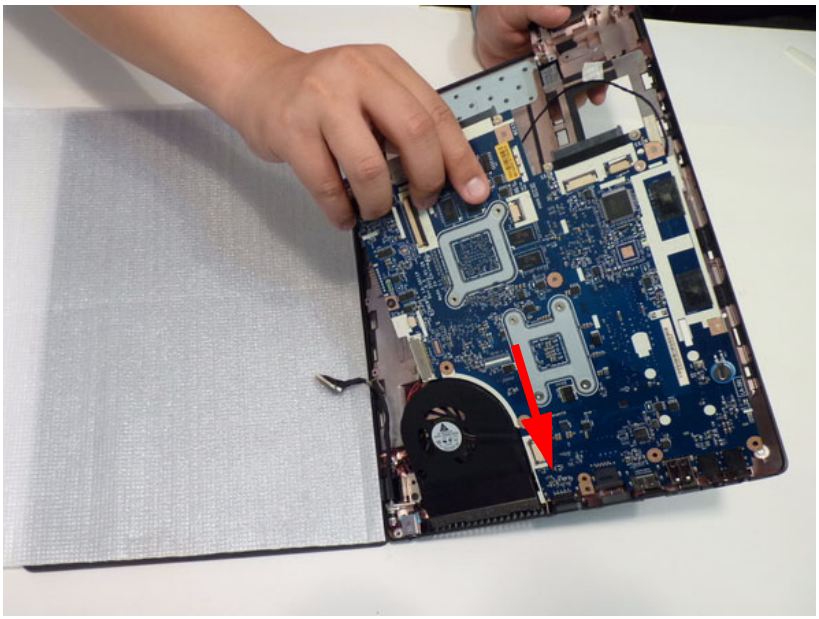
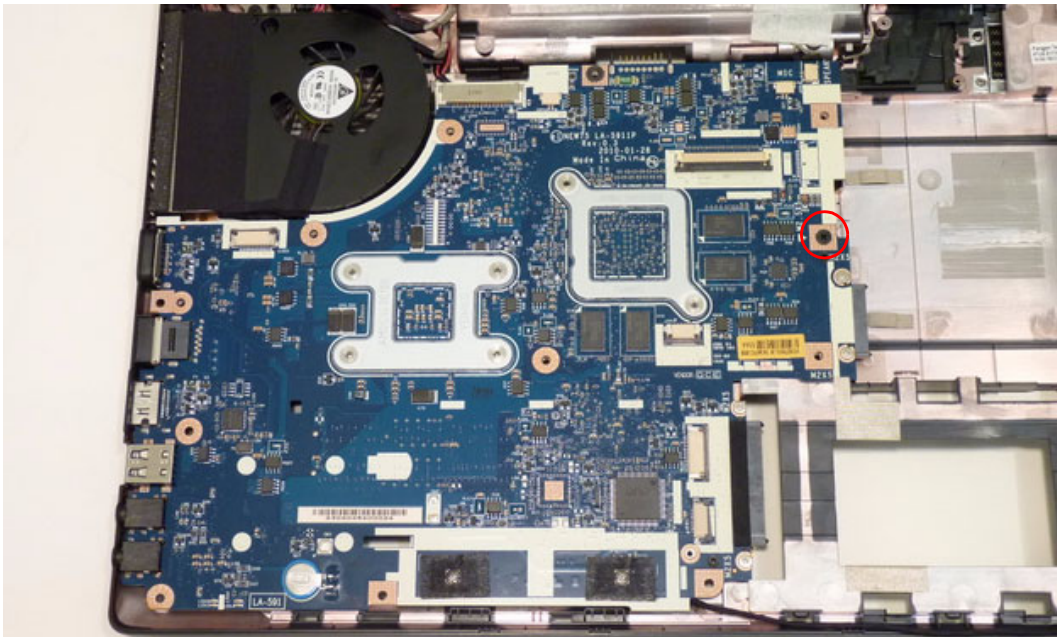
4. Place the left edge of the mainboard in first to line up the I/O ports before lowering the mainboard into the chassis.



NOTE: Ensure the I/O ports are positioned correctly through the casing.

5. Secure the one (1) securing screw on the Mainboard.



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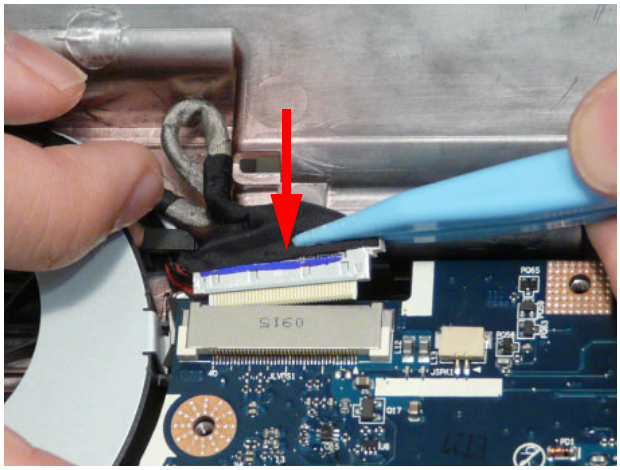
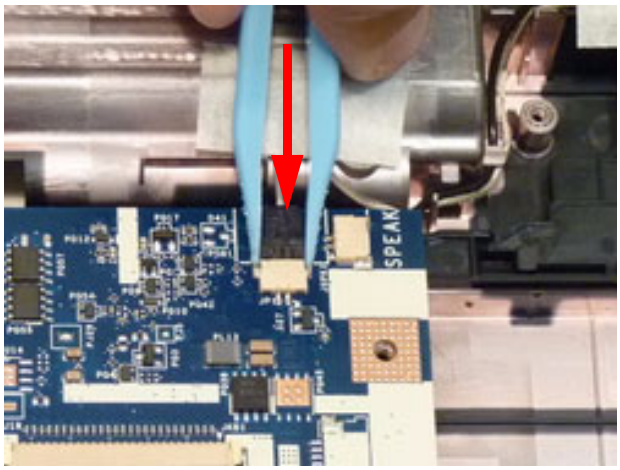
6. Connect the LVDS cable to the mainboard.



7. Connect the microphone cable.



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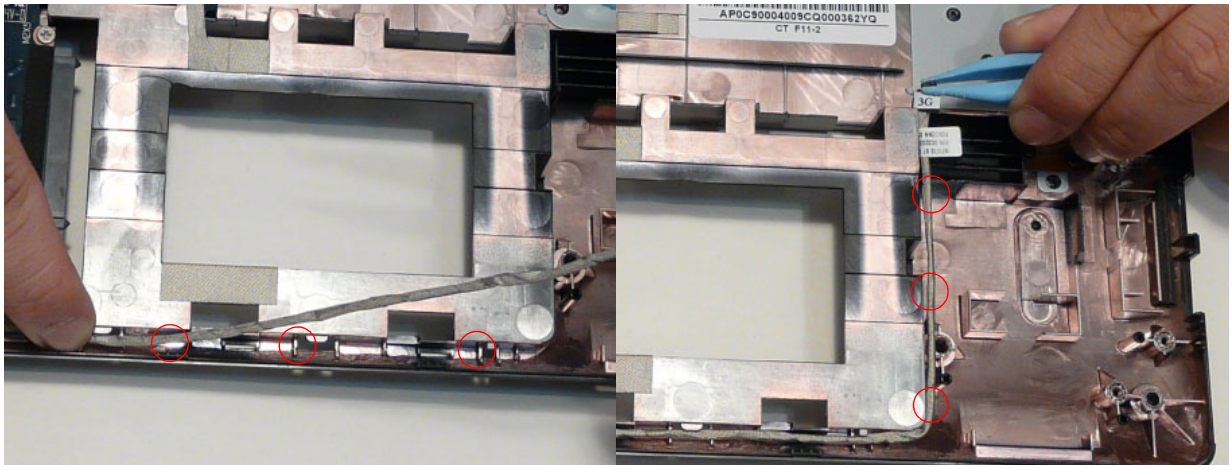
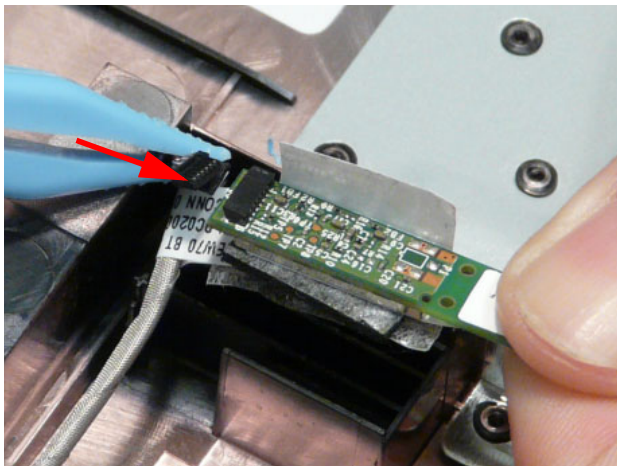
Replacing the Bluetooth Board

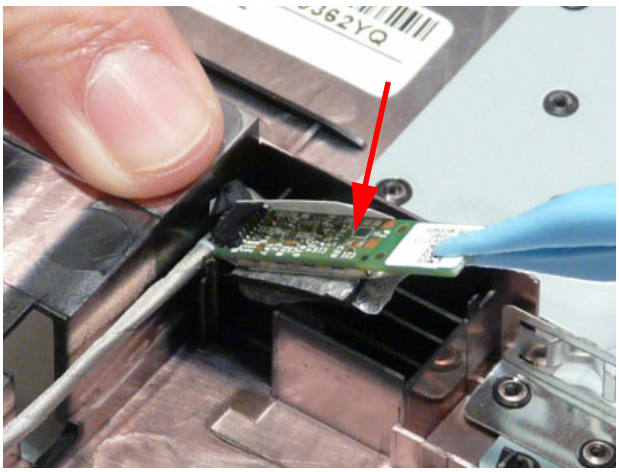
1. Run the Bluetooth cable along the channel as shown.



2. Connect the mainboard to Bluetooth cable.



3. Adhere the Bluetooth board to the adhesive.



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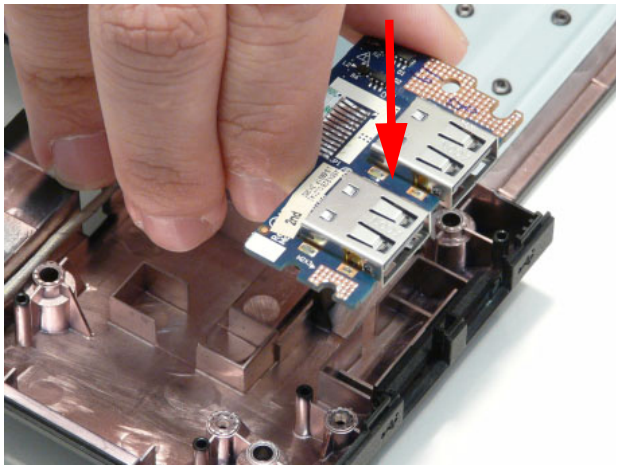
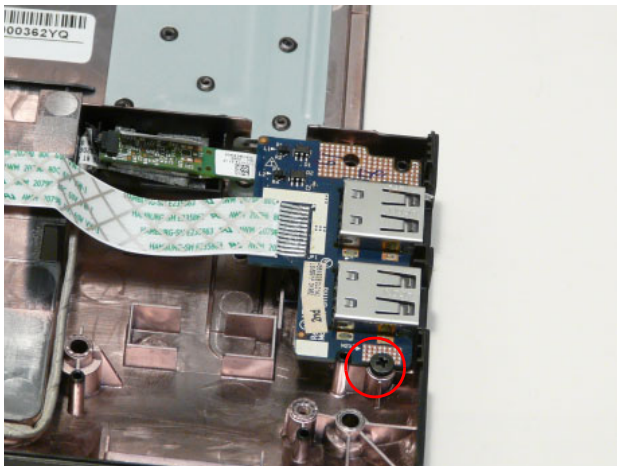
Replacing the USB Board

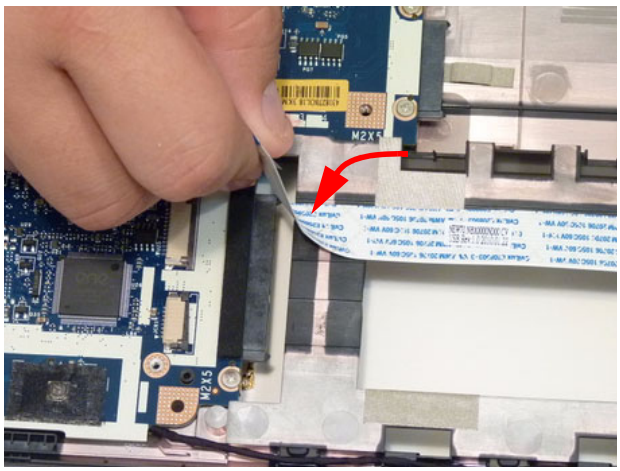
1. Place the USB board in the device.



2. Secure the one (1) screw on the USB board.



3. Adhere the cable to the chassis as shown.



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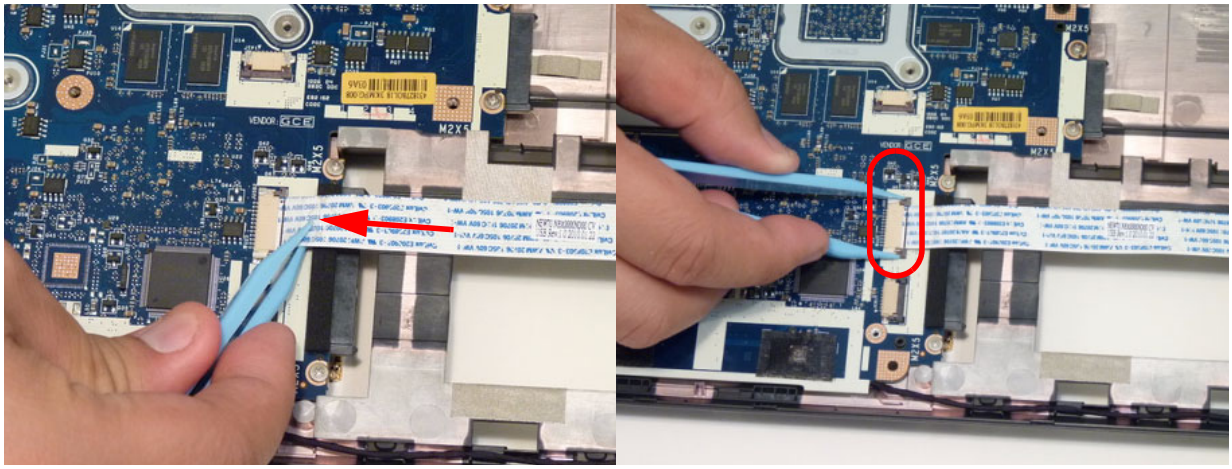
4. Connect the USB cable to the mainboard and lock the connector.



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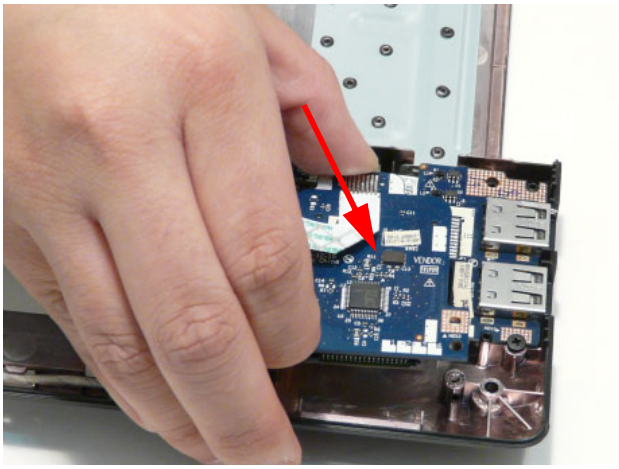
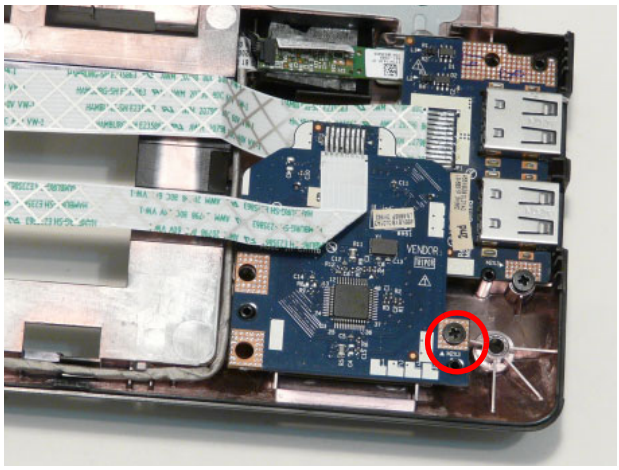
Replacing the Card Reader Board

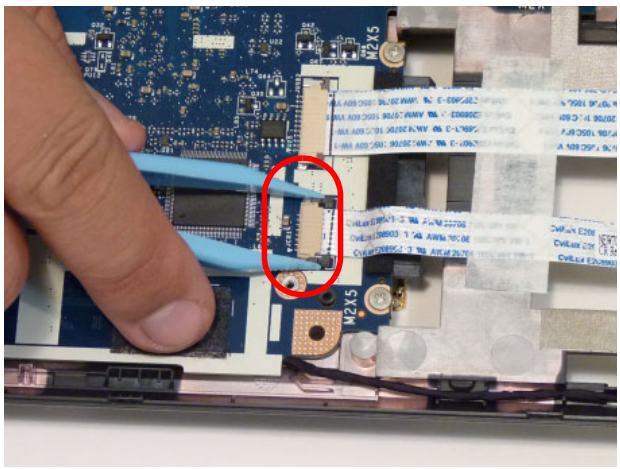
1. Place the card reader board in the device.



2. Secure one (1) screw on the card reader board.



3. Connect the card reader cable and lock the connector.



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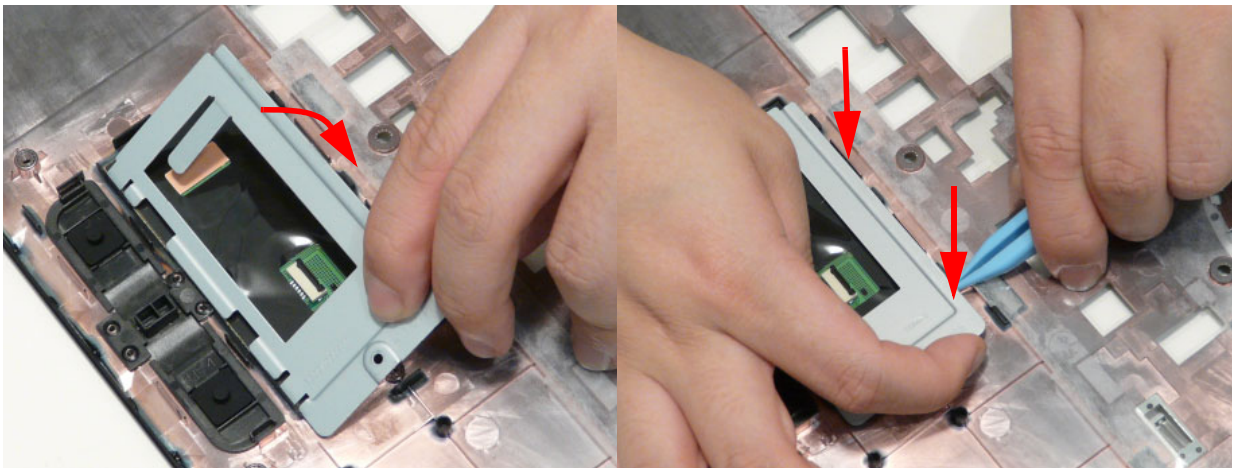
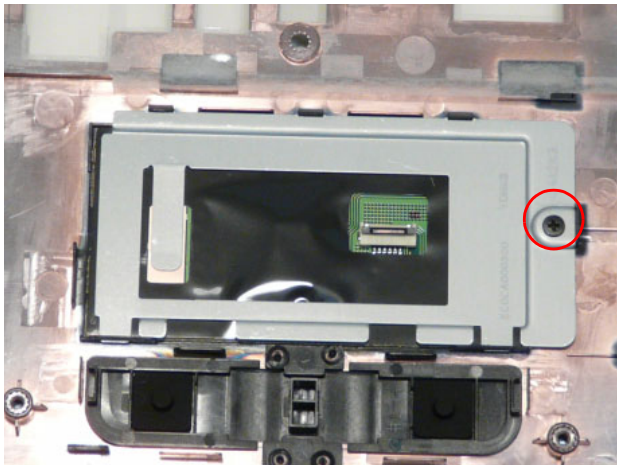
Replacing the TouchPad Bracket

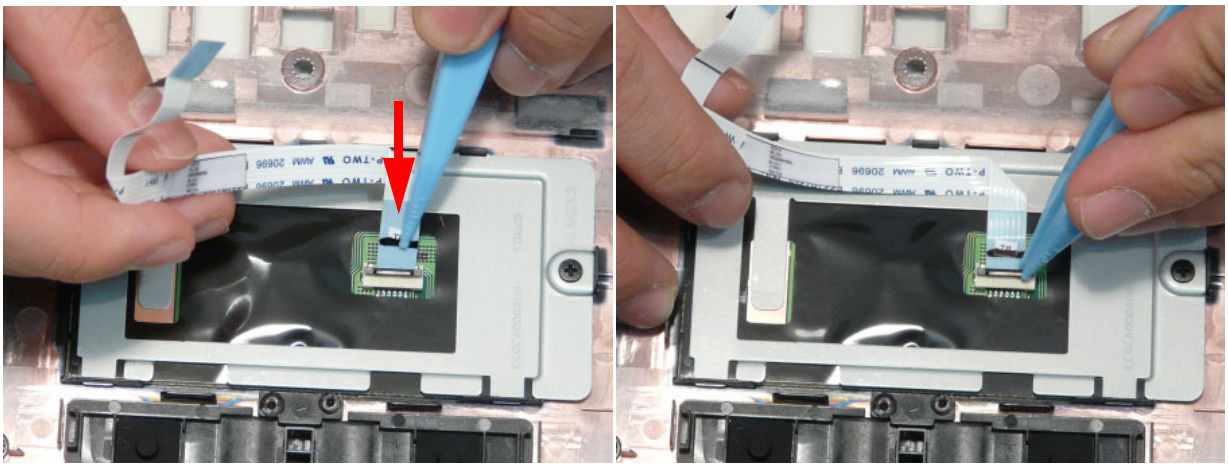
1. Replace the TouchPad bracket top edge first to engage the securing clips and press down firmly.



2. Replace the one (1) screws to secure the TouchPad Bracket to the Upper Cover.



3. Replace the TouchPad FFC and close the locking latch on the connector.



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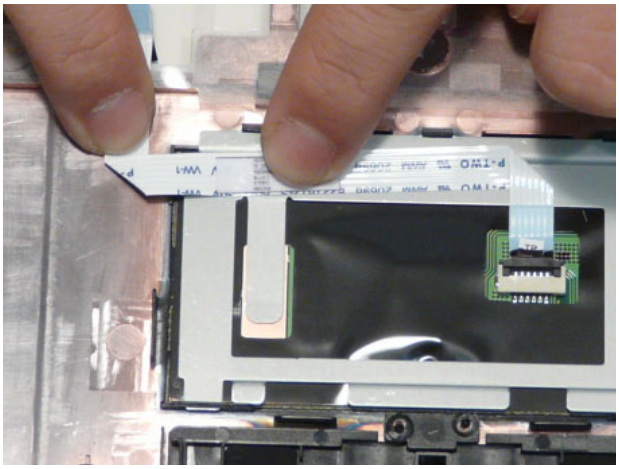
4. Replace the FFC and press down as indicated to secure it to the Upper Cover.



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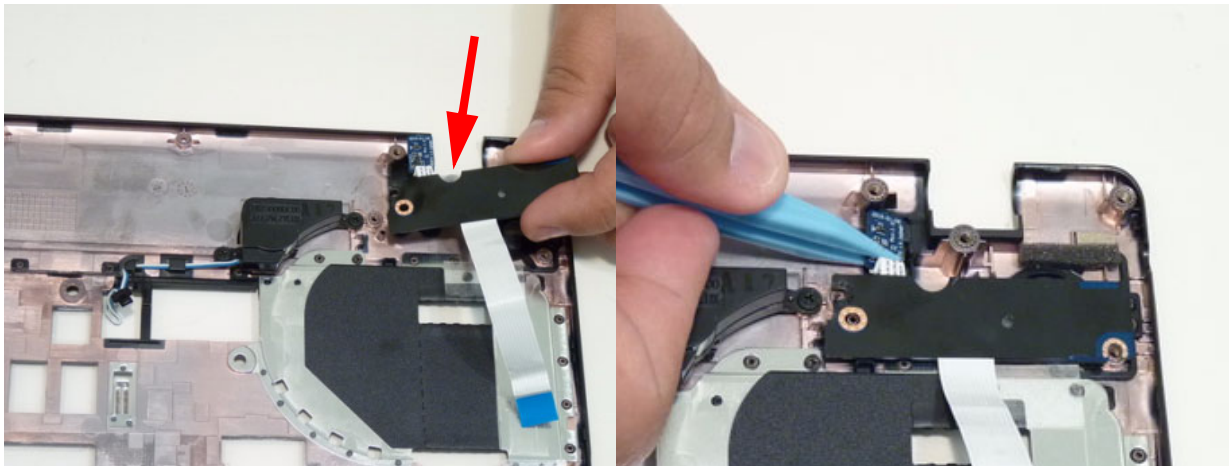
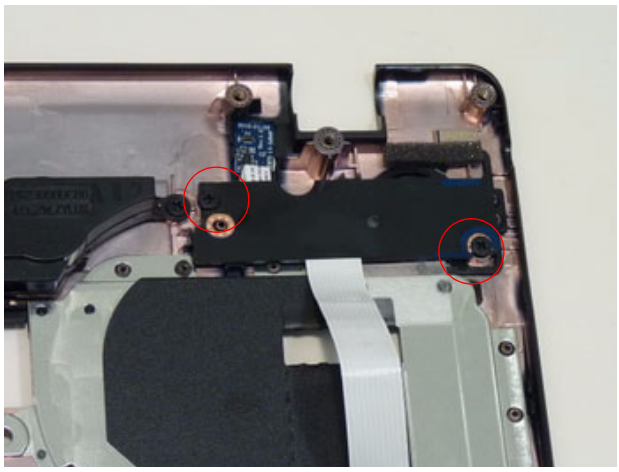
Replacing the Power Board

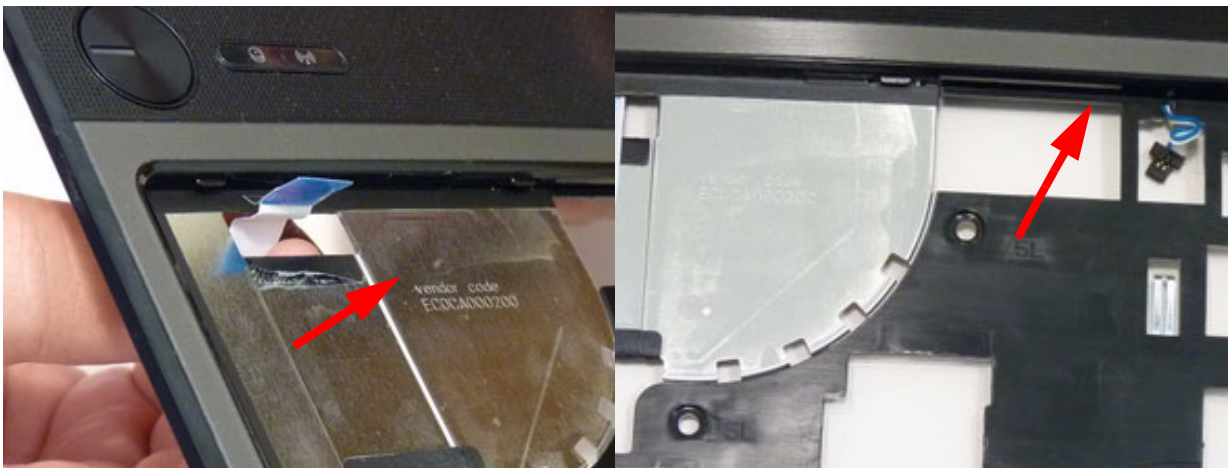
1. Place the power board in the upper cover. Ensure that the assembly fits inside the bracket securely.



2. Secure two (2) screws on the power board.



3. Pass the power board cable through the upper cover. Adhere the power board cable as shown.



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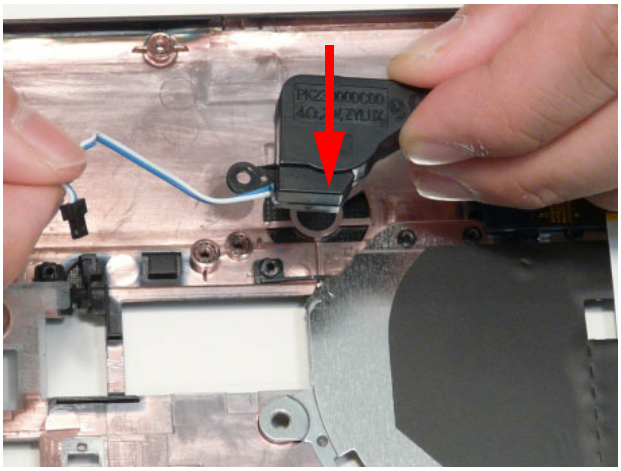
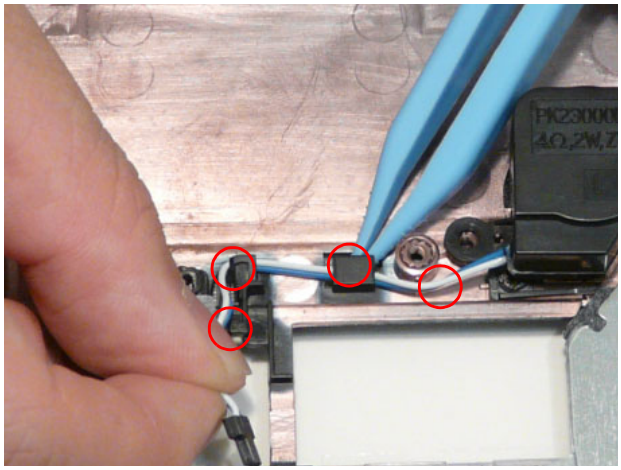
Replacing the Right Speaker Module

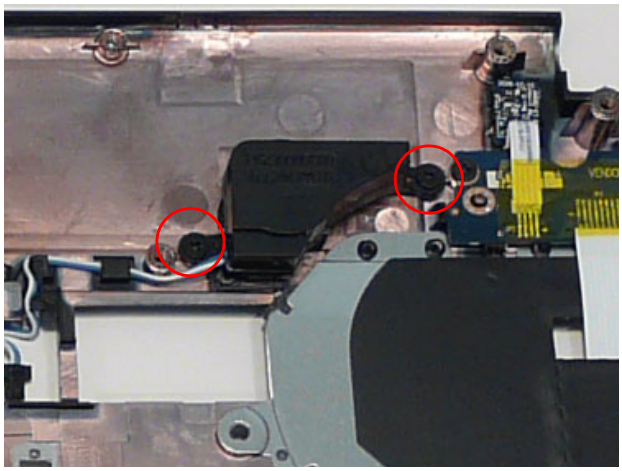
1. Place the right speaker module in the chassis as shown.



2. Run the speaker cable along the channel.



3. Secure the two (2) securing screws on the Right Speaker Module.



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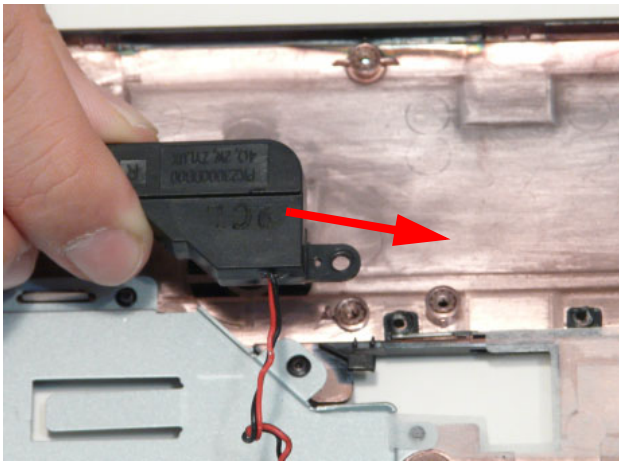
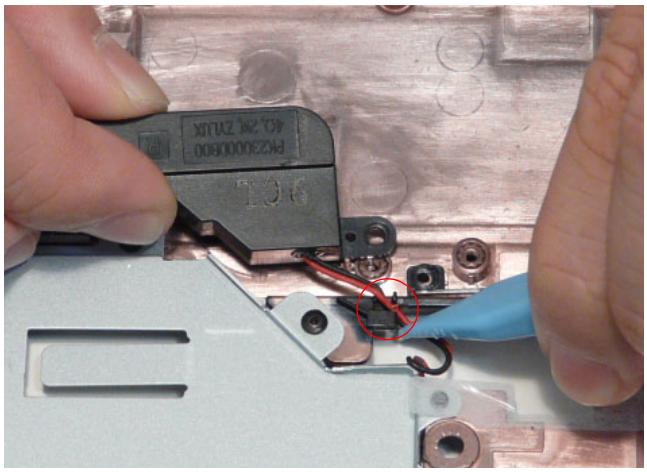
Replacing the Left Speaker Module

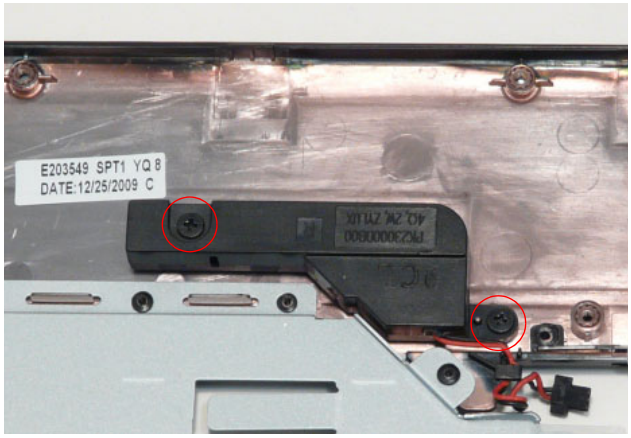
1. Place the module right side first on the Upper Cover as shown.



2. Run the Speaker cable along the cable channel.



3. Secure two (2) screws from the left speaker module.



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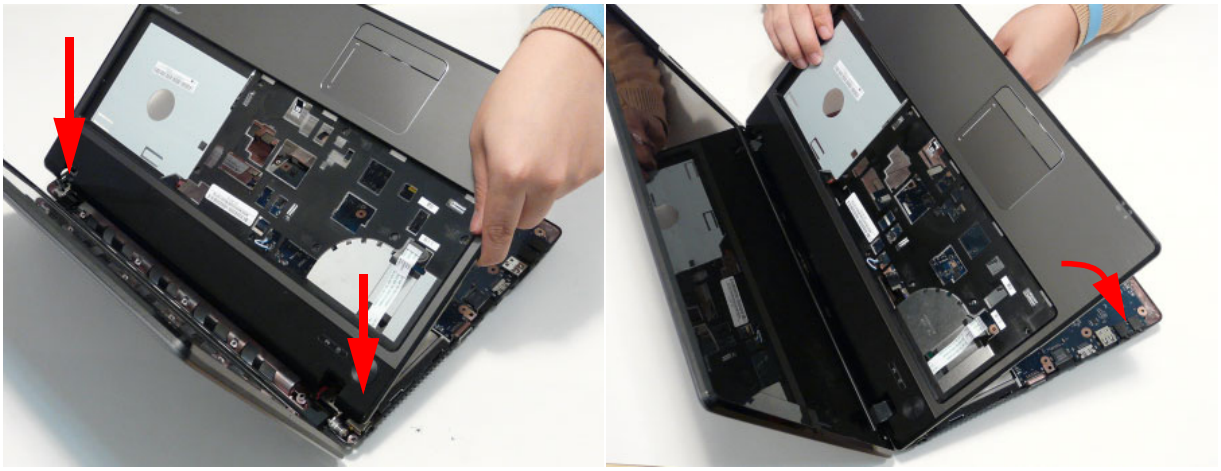
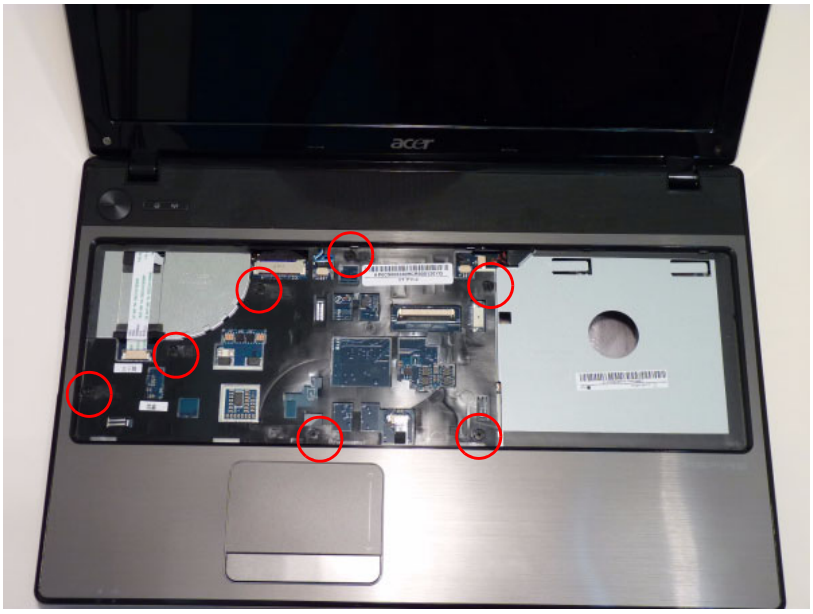
Replacing the Upper Cover

1. Place the Upper Cover on the Lower Cover as shown and press all sides are firmly in place.



2. Secure the seven (7) screws on the Upper Cover as shown.



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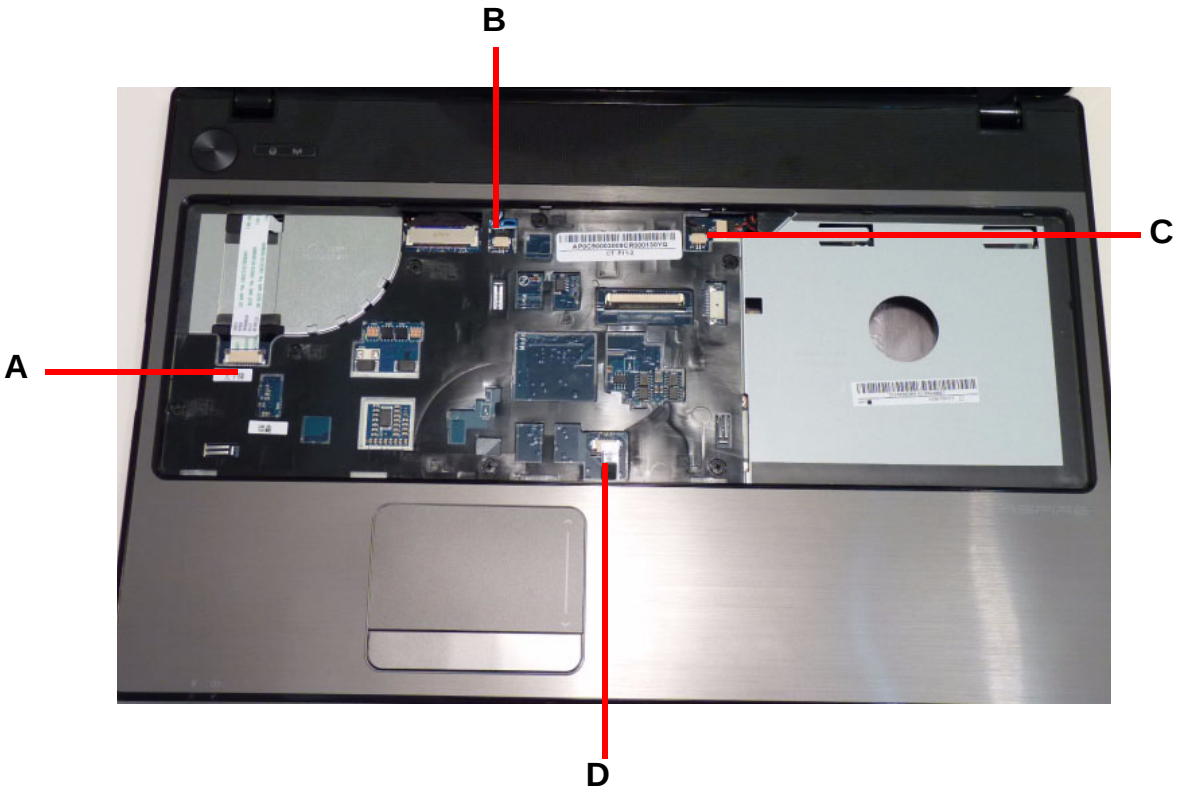
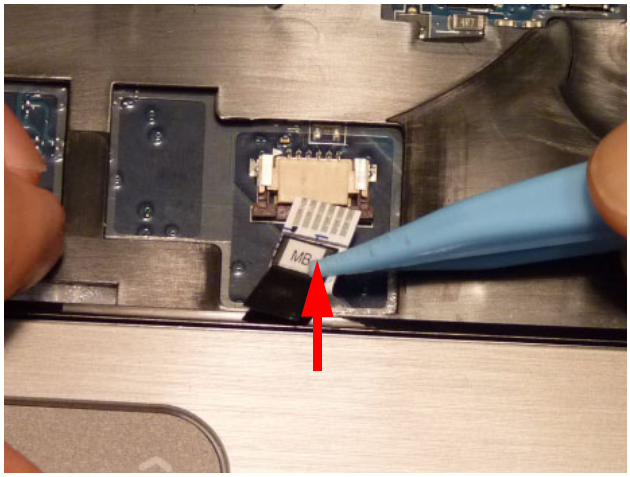
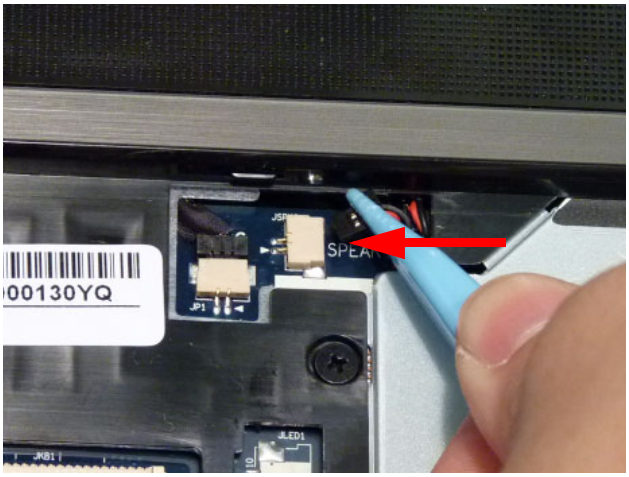
3. Connect the following cables to the Mainboard.



4. Connect D as shown.



5. Connect **C** as shown.



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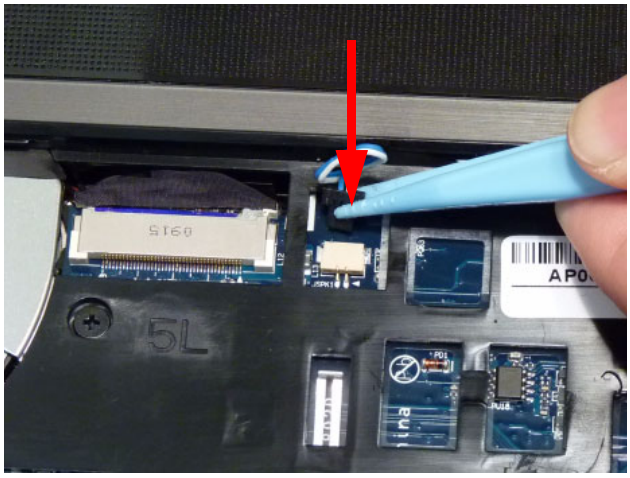
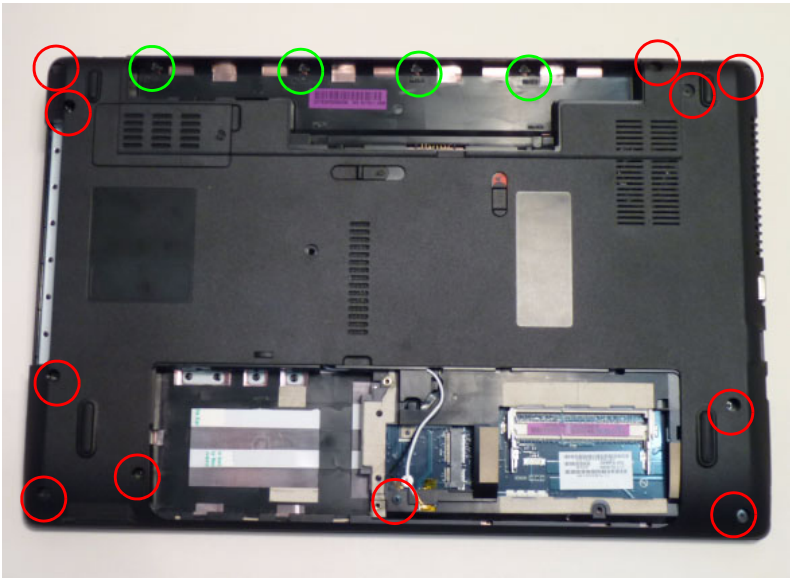
6. Connect B as shown.



7. Connect **A** and lock as shown.

8. Turn the computer over. Remove the eleven (11) screws on the lower cover and four (4) screws from the battery bay.



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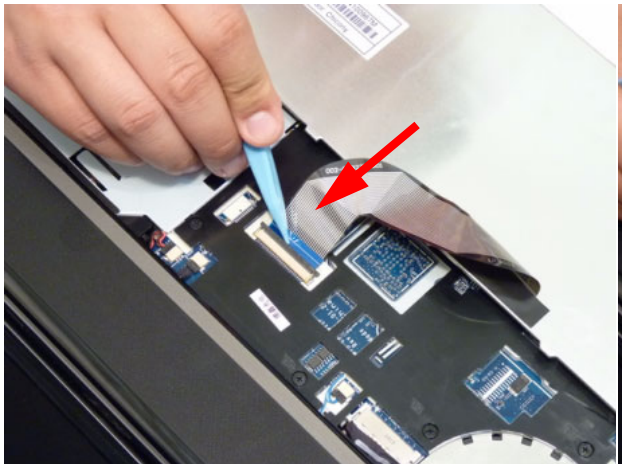
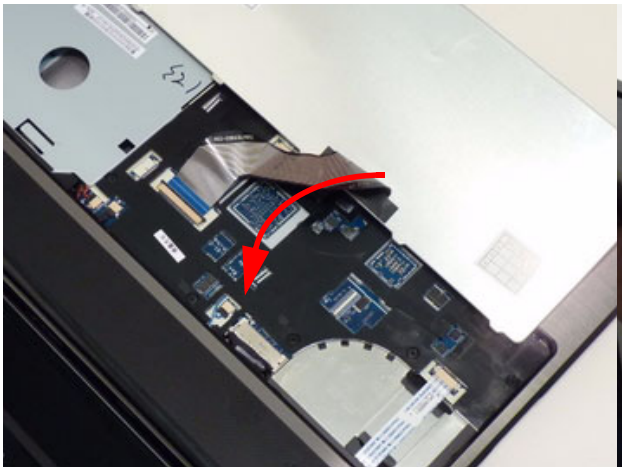
Replacing the Keyboard

1. Connect the Keyboard FFC to the Mainboard and close the locking latch to secure the cable in place.



2. Replace the Keyboard by first lining up the bottom edge. Press down firmly to lock.



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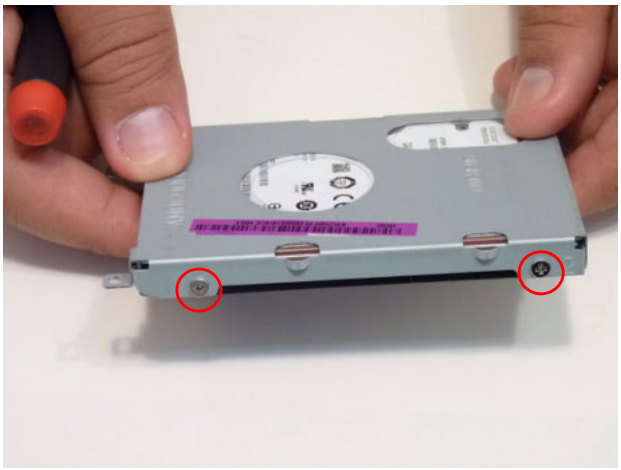
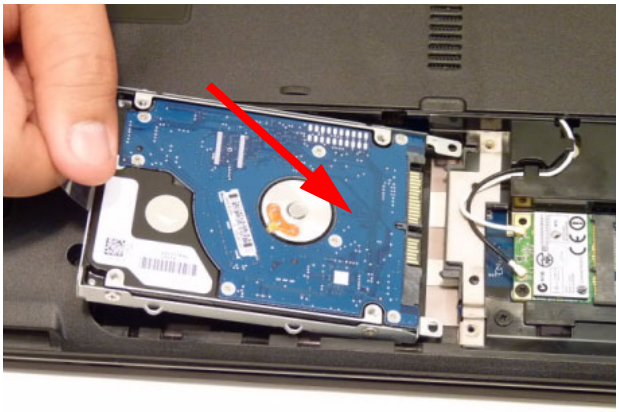
Replacing the Hard Disk Drive Module

1. Place the HDD in the HDD carrier.

2. Replace the four (4) screws (two each side) to secure the carrier.



3. Insert the HDD, as indicated and lower it into place.



4. Slide the HDD in the direction of the arrow to connect the interface.

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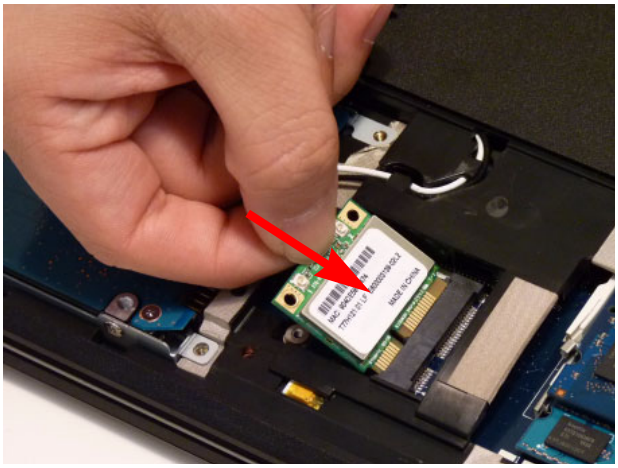
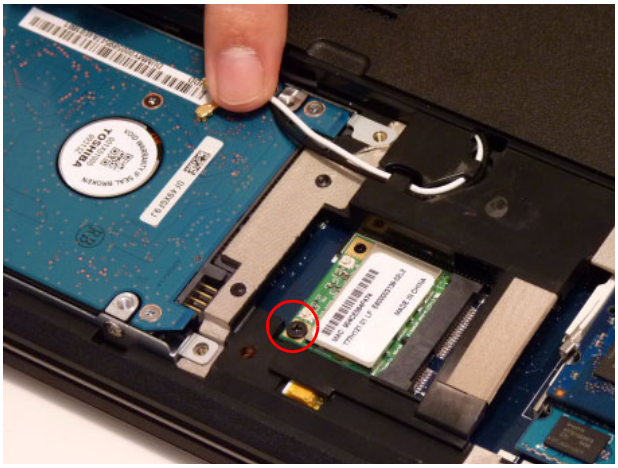
Replacing the WLAN Module

1. Insert the WLAN Module into the WLAN socket.

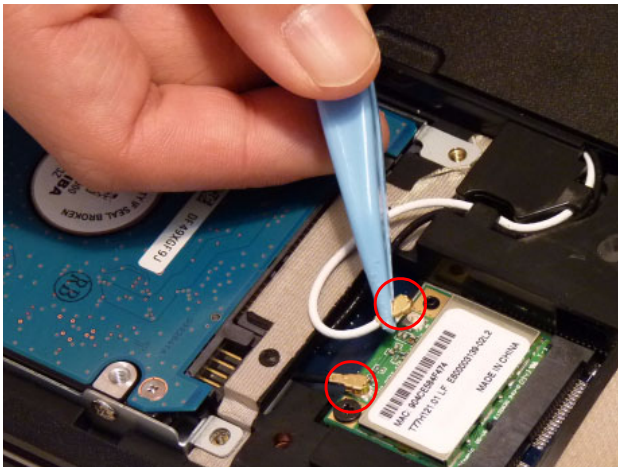


2. Replace the two (2) screws to secure the module.



3. Connect the two (2) Antenna cables to the module.

NOTE: The black cable connects to the upper terminal (MAIN) and the white cable to the lower terminal (MAIN).



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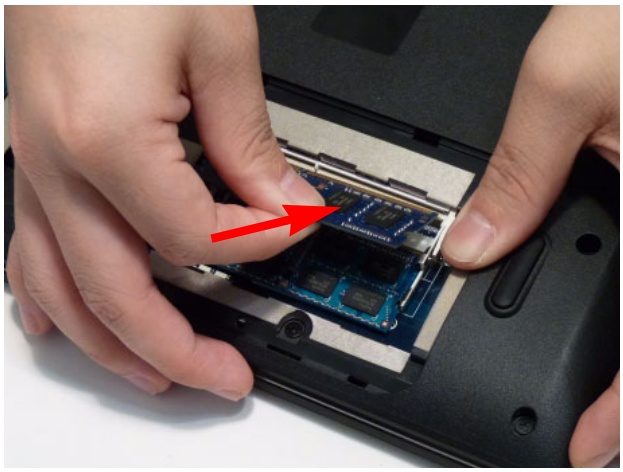
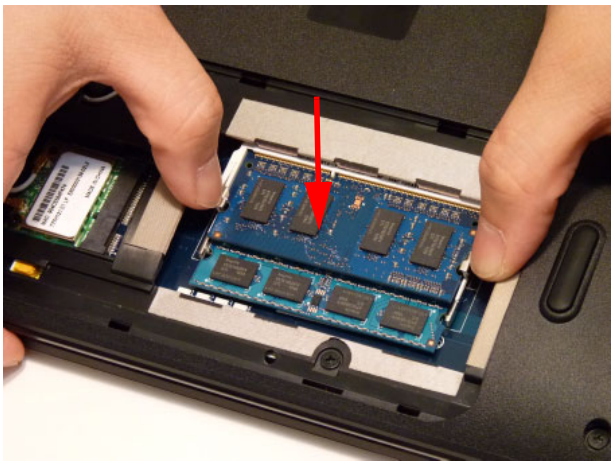
Replacing the DIMM Modules

1. Insert the DIMM Module in place.



2. Press down to lock the DIMM module in place.



3. Repeat steps for the second DIMM module if present.

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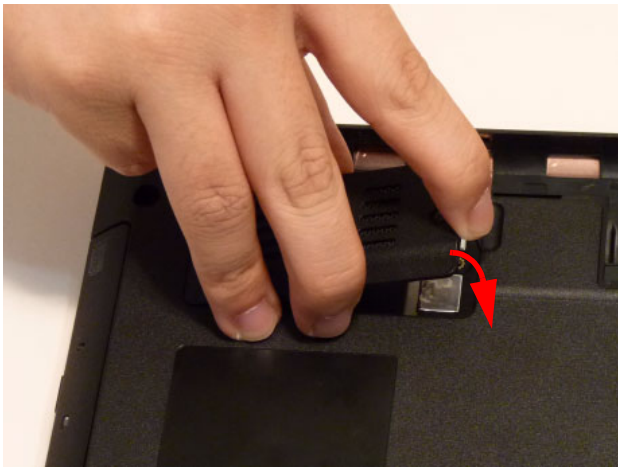
Replacing the 3G Cover

1. Line up the left edge of the 3G cover with the device, before replacing completely.



2. Replace one (1) screw on the 3G Cover.

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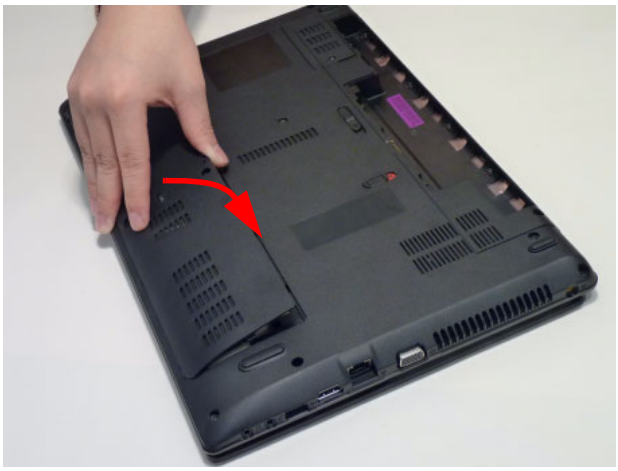
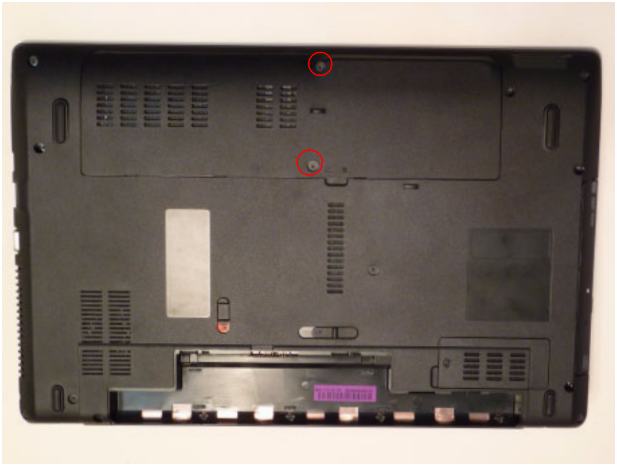
Replacing the Logic Lower Door

1. Replace the lower cover by first lining up the top edge as shown.



2. Secure two (2) screws on the lower cover.



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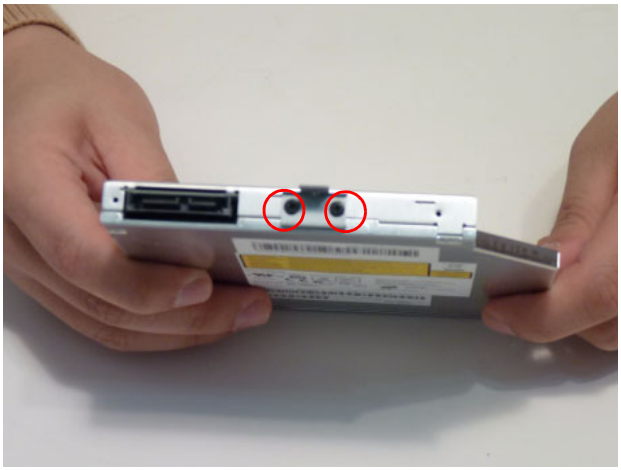
Replacing the ODD Module

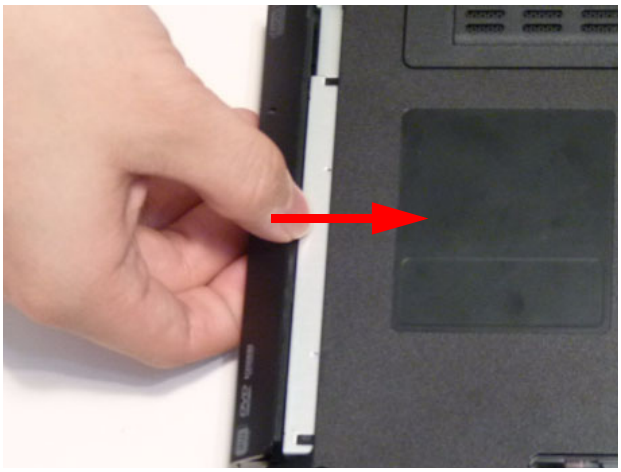
1. Press the bezel into the tray, bottom edge first, to secure it to the ODD Module.

2. Place the bracket on the ODD module.

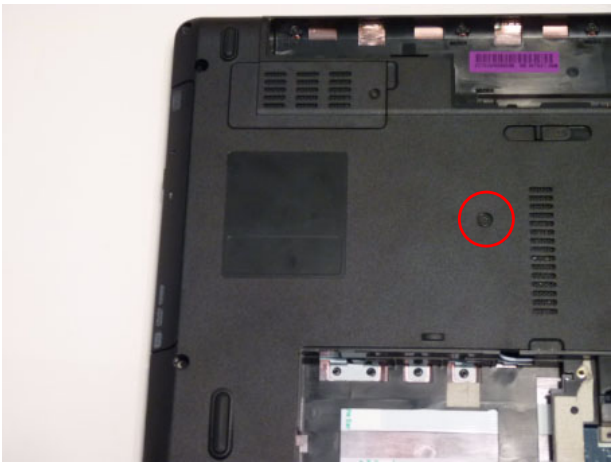
3. Secure the ODD bracket with the two (2) screws.



4. Push the ODD Module into the ODD bay until it is flush with the casing.



5. Replace the one (1) screw to secure the Module.



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Replacing the SD Dummy Card

1. Insert the SD Dummy Card into the slot as shown.

2. Push until the card clicks into place and is flush with the casing.

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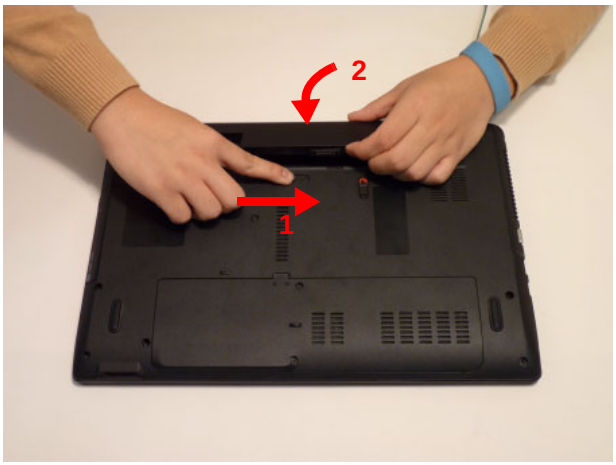
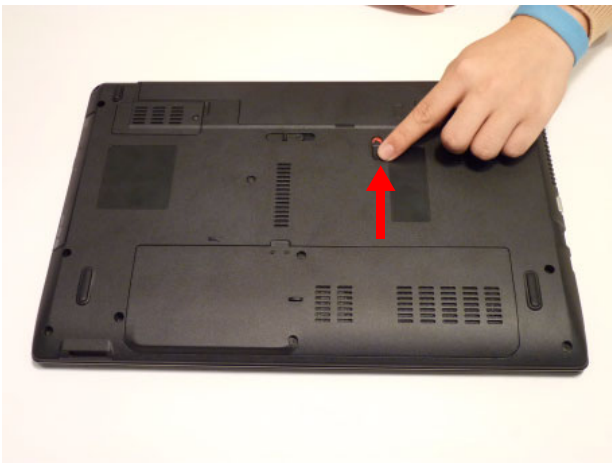
Replacing the Battery

1. Slide and hold the battery release latch to the release position (1), insert the battery pack and press down (2).



2. Slide the battery lock in the direction shown to secure the battery in place.



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Troubleshooting

Common Problems

Use the following procedure as a guide for computer problems.

NOTE: The diagnostic tests are intended to test only Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to re-create the failure by running the diagnostic test or by repeating the same operation.
3. Use the following table with the verified symptom to determine which page to go to.

Symptoms (Verified)	Go To
Power On Issue	Page 138
No Display Issue	Page 139
LCD Failure	Page 141
Internal Keyboard Failure	Page 141
TouchPad Failure	Page 142
Internal Speaker Failure	Page 142
ODD Failure	Page 145
WLAN Failure	Page 148
Thermal Unit Failure	Page 148
Other Functions Failure	Page 149
Intermittent Failures	Page 150
Undermined Failures	Page 150

4. If the Issue is still not resolved, see “Online Support Information” on page 195.

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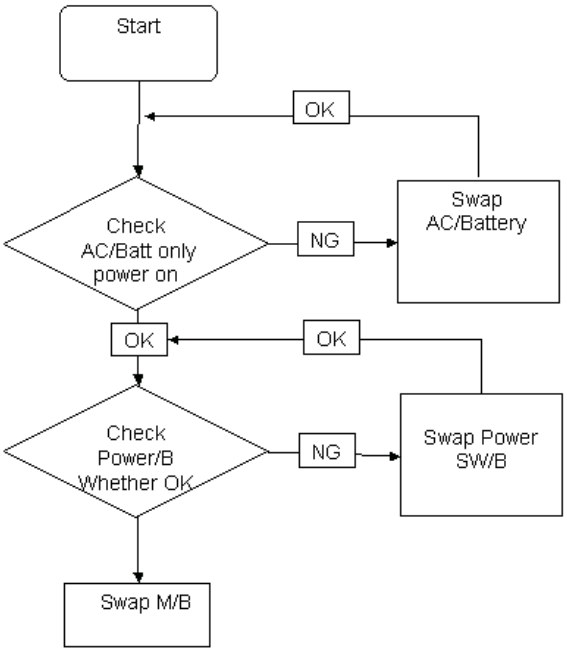
Power On Issue

If the system doesn't power on, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Computer Shutsdown Intermittently

If the system powers off at intervals, perform the following actions one at a time to correct the problem.

1. Check the power cable is properly connected to the computer and the electrical outlet.
2. Remove any extension cables between the computer and the outlet.
3. Remove any surge protectors between the computer and the electrical outlet. Plug the computer directly into a known good electrical outlet.
4. Disconnect the power and open the casing to check the Thermal Unit (see "Thermal Unit Failure" on page 148) and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, see "Online Support Information" on page 195.

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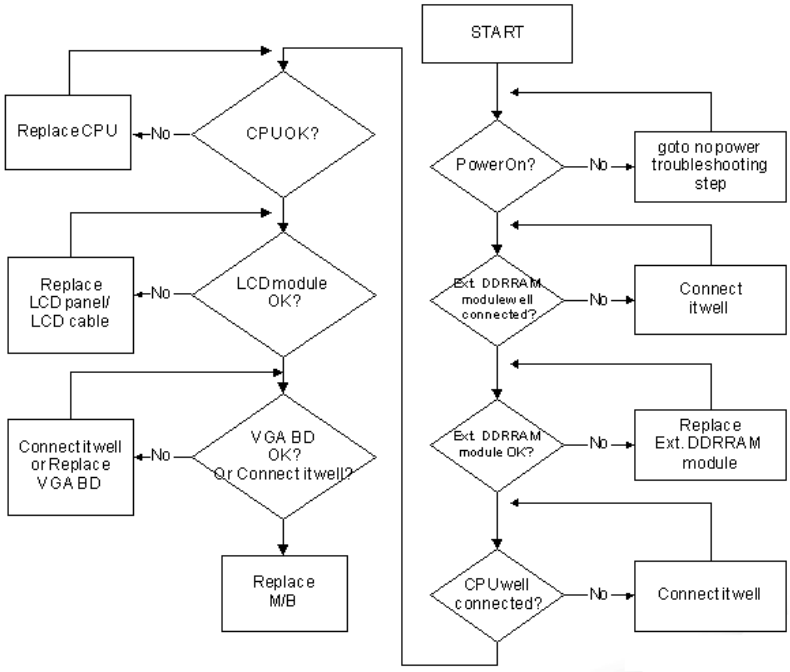
No Display Issue

If the **Display** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



No POST or Video

If the POST or video doesn't display, perform the following actions one at a time to correct the problem.

1. Make sure that the internal display is selected. On this notebook model, switching between the internal display and the external display is done by pressing **Fn+F5**. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking at least one of the following occurs:
   - Fans start up
   - Status LEDs light up

   If there is no power, see "Power On Issue" on page 138.
3. Drain any stored power by removing the power cable and battery and holding down the power button for 10 seconds. Reconnect the power and reboot the computer.
4. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing **Fn+F5** (on this model).

   If the POST or video appears on the external display, see "LCD Failure" on page 141.
5. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs. Restart the computer.

   If the computer boots correctly, add the devices one by one until the failure point is discovered.
6. Reseat the memory modules.
7. Remove the drives (see "Disassembly Process" on page 45).
8. If the Issue is still not resolved, see "Online Support Information" on page 195.

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Abnormal Video Display

If video displays abnormally, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. If permanent vertical/horizontal lines or dark spots display in the same location, the LCD is faulty and should be replaced. See “Disassembly Process” on page 45.
3. If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. See “Disassembly Process” on page 45.
4. Adjust the brightness to its highest level. See the User Manual for instructions on adjusting settings.

   NOTE: Ensure that the computer is not running on battery alone as this may reduce display brightness.

   If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. See “Disassembly Process” on page 45.
5. Check the display resolution is correctly configured:
   a. Minimize or close all Windows.
   b. If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   c. If desktop display resolution is not normal, right-click on the desktop and select **Personalize→ Display Settings**.
   d. Click and drag the Resolution slider to the desired resolution.
   e. Click **Apply** and check the display. Readjust if necessary.
6. Roll back the video driver to the previous version if updated.
7. Remove and reinstall the video driver.
8. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
9. If the Issue is still not resolved, see “Online Support Information” on page 195.
10. Run the Windows Memory Diagnostic from the operating system DVD and follow the onscreen prompts.
11. If the Issue is still not resolved, see “Online Support Information” on page 195.

Random Loss of BIOS Settings

If the computer is experiencing intermittent loss of BIOS information, perform the following actions one at a time to correct the problem.

1. If the computer is more than one year old, replace the CMOS battery.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. If the computer is experiencing HDD or ODD BIOS information loss, disconnect and reconnect the power and data cables between devices.

   If the BIOS settings are still lost, replace the cables.
4. If HDD information is missing from the BIOS, the drive may be defective and should be replaced.
5. Replace the Motherboard.
6. If the Issue is still not resolved, see “Online Support Information” on page 195.

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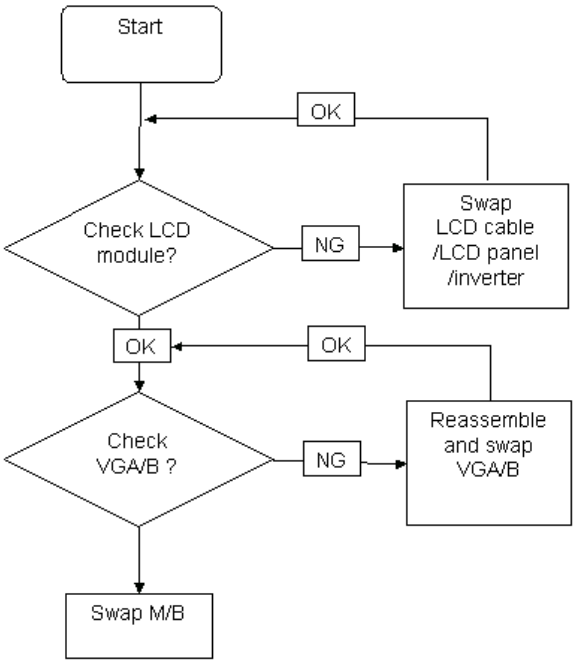
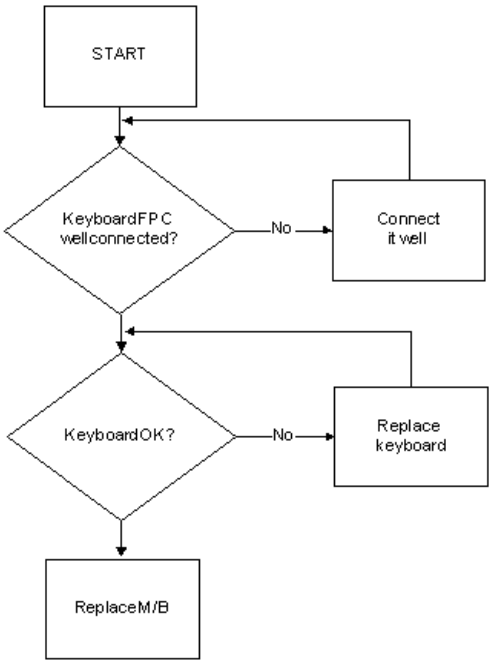
LCD Failure

If the **LCD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Built-In Keyboard Failure

If the built-in **Keyboard** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



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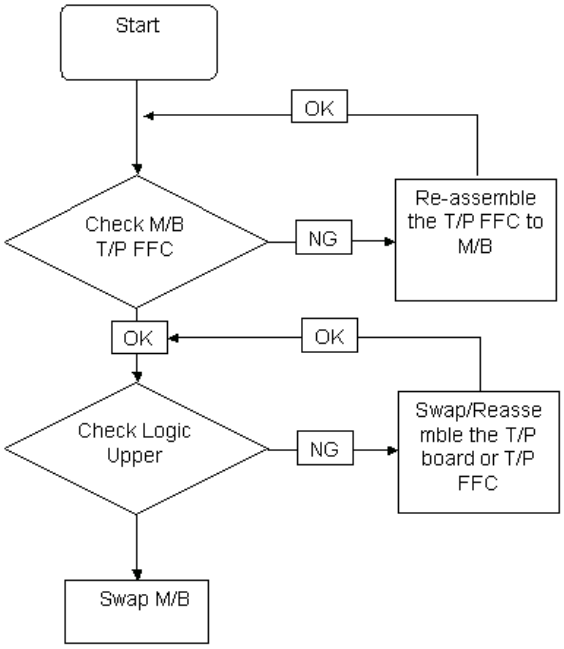
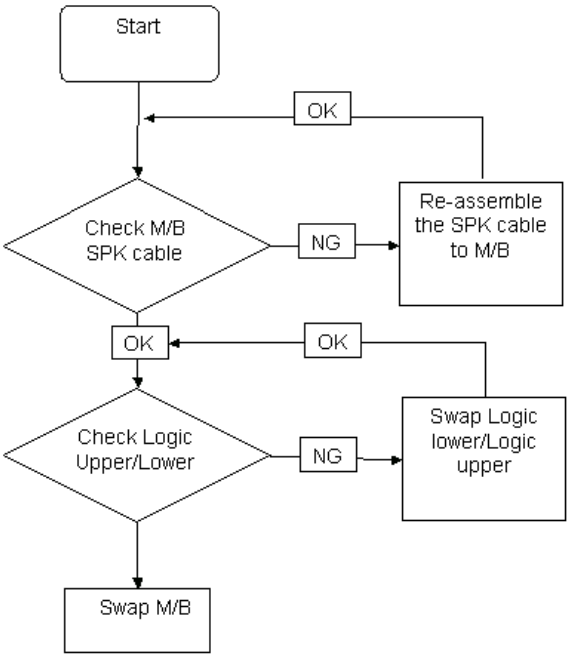
TouchPad Failure

If the **TouchPad** doesn't work, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Internal Speaker Failure

If the internal **Speakers** fail, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



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Sound Problems

If sound problems are experienced, perform the following actions one at a time to correct the problem.

1. Reboot the computer.
2. Navigate to **Start→ Control Panel→ System and Maintenance→ System→ Device Manager**. Check the Device Manager to determine that:
   - The device is properly installed.
   - There are no red Xs or yellow exclamation marks.
   - There are no device conflicts.
   - No hardware is listed under Other Devices.
3. Roll back the audio driver to the previous version, if updated recently.
4. Remove and reinstall the audio driver.
5. Ensure that all volume controls are set mid range:
   a. Click the volume icon on the taskbar and drag the slider to 50. Ensure that the volume is not muted.
   b. Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to **Start→ Control Panel→ Hardware and Sound→ Sound**. Ensure that Speakers are selected as the default audio device (green check mark).
   NOTE: If Speakers does not show, right-click on the **Playback** tab and select **Show Disabled Devices** (clear by default).
7. Select Speakers and click **Configure** to start **Speaker Setup**. Follow the onscreen prompts to configure the speakers.
8. Remove and recently installed hardware or software.
9. Restore system and file settings from a known good date using **System Restore**.
   If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
10. Reinstall the Operating System.
11. If the Issue is still not resolved, see “Online Support Information” on page 195.

Microphone Problems

If internal or external **Microphones** do no operate correctly, perform the following actions one at a time to correct the problem.

1. Check that the microphone is enabled. Navigate to **Start→ Control Panel→ Hardware and Sound→ Sound** and select the **Recording** tab.
2. Right-click on the **Recording** tab and select **Show Disabled Devices** (clear by default).
3. The microphone appears on the **Recording** tab.
4. Right-click on the microphone and select **Enable**.
5. Select the microphone then click **Properties**. Select the **Levels** tab.
6. Increase the volume to the maximum setting and click **OK**.
7. Test the microphone hardware:
   a. Select the microphone and click **Configure**.
   b. Select **Set up microphone**.
   c. Select the microphone type from the list and click **Next**.
   d. Follow the onscreen prompts to complete the test.
8. If the Issue is still not resolved, see “Online Support Information” on page 195.

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HDD Not Operating Correctly

If the **HDD** does not operate correctly, perform the following actions one at a time to correct the problem.

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to ensure the computer is virus free.
3. Run the Windows 7Startup Repair Utility:
   a. insert the Windows 7Operating System DVD in the ODD and restart the computer.
   b. When prompted, press any key to start to the operating system DVD.
   c. The **Install Windows** screen displays. Click **Next**.
   d. Select **Repair your computer**.
   e. The **System Recovery Options** screen displays. Click **Next**.
   f. Select the appropriate operating system, and click **Next**.

   NOTE: Click **Load Drivers** if controller drives are required.

   g. Select **Startup Repair**.
   h. Startup Repair attempts to locate and resolve issues with the computer.
   i. When complete, click **Finish**.

   If an issue is discovered, follow the onscreen information to resolve the problem.
4. Run the Windows Memory Diagnostic Tool. For more information see Windows Help and Support.
5. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
6. Ensure all cables and jumpers on the HDD and ODD are set correctly.
7. Remove any recently added hardware and associated software.
8. Run the Windows Disk Defragmenter. For more information see Windows Help and Support.
9. Run Windows Check Disk by entering **chkdsk /r** from a command prompt. For more information see Windows Help and Support.
10. Restore system and file settings from a known good date using **System Restore**.

    If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
11. Replace the HDD. See “Disassembly Process” on page 45.

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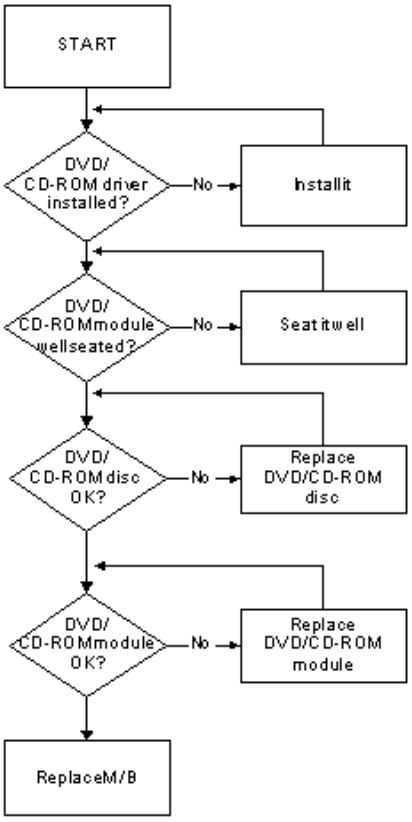
ODD Failure

If the **ODD** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



ODD Not Operating Correctly

If the **ODD** exhibits any of the following symptoms it may be faulty:

- Audio CDs do not play when loaded
- DVDs do not play when loaded
- Blank discs do not burn correctly
- DVD or CD play breaks up or jumps
- Optical drive not found or not active:
  - Not shown in My Computer or the BIOS setup
  - LED does not flash when the computer starts up
  - The tray does not eject
- Access failure screen displays
- The ODD is noisy

Perform the following general solutions one at a time to correct the problem.

1. Reboot the computer and retry the operation.
2. Try an alternate disc.
3. Navigate to **Start→ Computer**. Check that the ODD device is displayed in the **Devices with Removable Storage** panel.
4. Navigate to **Start→ Control Panel→ System and Maintenance→ System→ Device Manager**.

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a. Double-click **IDE ATA/ATAPI controllers**. If a device displays a down arrow, right-click on the device and click **Enable**.

b. Double-click **DVD/CD-ROM drives**. If the device displays a down arrow, right-click on the device and click **Enable**.

c. Check that there are no yellow exclamation marks against the items in **IDE ATA/ATAPI controllers**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.

d. Check that there are no yellow exclamation marks against the items in **DVD/CD-ROM drives**. If a device has an exclamation mark, right-click on the device and uninstall and reinstall the driver.

e. If the exclamation marker is not removed from the item in the lists, try removing any recently installed software and retrying the operation.

Discs Do Not Play

If discs do not play when inserted in the drive, perform the following actions one at a time to correct the problem.

1. Check that the disc is correctly seated in the drive tray and that the label on the disc is visible.
2. Check that the media is clean and scratch free.
3. Try an alternate disc in the drive.
4. Ensure that **AutoPlay** is enabled:
   a. Navigate to **Start→ Control Panel→ Hardware and Sound→ AutoPlay**.
   b. Select **Use AutoPlay for all media and devices**.
   c. In the Audio CD and DVD Movie fields, select the desired player from the drop down menu.
5. Check that the Regional Code is correct for the selected media:

IMPORTANT: Region can only be changed a limited number of times. After Changes remaining reaches zero, the region cannot be changed even Windows is reinstalled or the drive is moved to another computer.

a. Navigate to **Start→ Control Panel→ System and Maintenance→ System→ Device Manager**.

b. Double-click **DVD/CD-ROM drives**.

c. Right-click **DVD drive** and click **Properties**, then click the **DVD Region** tab.

d. Select the region suitable for the media inserted in the drive.

Discs Do Not Burn Properly

If discs can not be burned, perform the following actions one at a time to correct the problem.

1. Ensure that the default drive is record enabled:
   a. Navigate to **Start→ Computer** and right-click the writable ODD icon. Click **Properties**.
   b. Select the **Recording** tab. In the **Desktop disc recording** panel, select the writable ODD from the drop down list.
   c. Click **OK**.
2. Ensure that the software used for burning discs is the factory default. If using different software, refer to the software's user manual.

Playback is Choppy

If playback is choppy or jumps, perform the following actions one at a time to correct the problem.

1. Check that system resources are not running low:
   a. Try closing some applications.
   b. Reboot and try the operation again.
2. Check that the ODD controller transfer mode is set to DMA:
   a. Navigate to **Start→ Control Panel→ System and Maintenance→ System→ Device Manager**.

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b. Double-click **IDE ATA/ATAPI controllers**, then right-click ATA Device 0.

c. Click **Properties** and select the **Advanced Settings** tab. Ensure that the **Enable DMA** box is checked and click **OK**.

d. Repeat for the other ATA Devices shown if applicable.

Drive Not Detected

If Windows cannot detect the drive, perform the following actions one at a time to correct the problem.

1. Restart the computer and press F2 to enter the BIOS Utility.
2. Check that the drive is detected in the **ATAPI Model Name** field on the Information page.

   NOTE: Check that the entry is identical to one of the ODDs specified in “Hardware Specifications and Configurations” on page 14.
3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 45.

   a. Check for broken connectors on the drive, motherboard, and cables.

   b. Check for bent or broken pins on the drive, motherboard, and cable connections.

   c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Reseat the drive ensuring and all cables are connected correctly.
5. Replace the ODD. See “Disassembly Process” on page 45.

Drive Read Failure

If discs cannot be read when inserted in the drive, perform the following actions one at a time to correct the problem.

1. Remove and clean the failed disc.
2. Retry reading the CD or DVD.

   d. Test the drive using other discs.

   e. Play a DVD movie

   f. Listen to a music CD

   If the ODD works properly with alternate discs, the original disc is probably defective and should be replaced.
3. Turn off the power and remove the cover to inspect the connections to the ODD. See “Disassembly Process” on page 45.

   a. Check for broken connectors on the drive, motherboard, and cables.

   b. Check for bent or broken pins on the drive, motherboard, and cable connections.

   c. Try an alternate cable, if available. If the drive works with the new cable, the original cable should be replaced.
4. Replace the ODD. See “Disassembly Process” on page 45.

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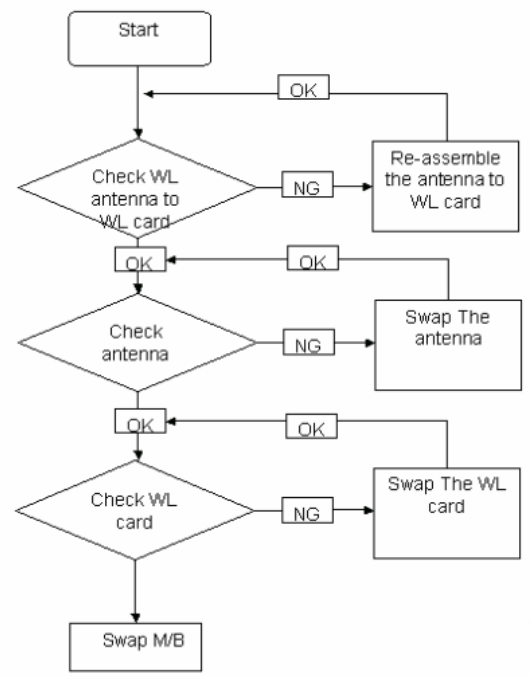
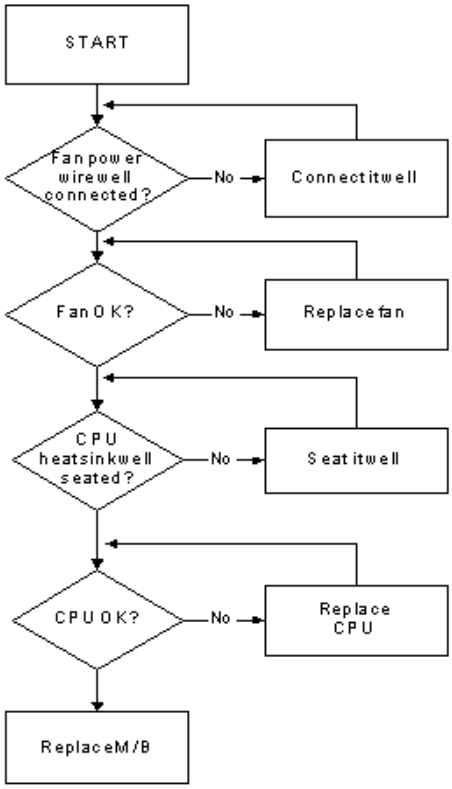
Wireless Function Failure

If the **WLAN** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



Thermal Unit Failure

If the **Thermal Unit** fails, perform the following actions one at a time to correct the problem. Do not replace a non-defective FRUs:



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External Mouse Failure

If an external **Mouse** fails, perform the following actions one at a time to correct the problem.

1. Try an alternative mouse.
2. If the mouse uses a wireless connection, insert new batteries and confirm there is a good connection. See the mouse user manual.
3. If the mouse uses a USB connection, try an alternate USB port.
4. Try an alternative program to verify mouse operation. Reinstall the program experiencing mouse failure.
5. Restart the computer.
6. Remove any recently added hardware and associated software.
7. Remove any recently added software and reboot.
8. Restore system and file settings from a known good date using **System Restore**.

   If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
9. Run the Event Viewer to check the events log for errors. For more information see Windows Help and Support.
10. Roll back the mouse driver to the previous version if updated recently.
11. Remove and reinstall the mouse driver.
12. Check the Device Manager to determine that:
    - The device is properly installed. There are no red Xs or yellow exclamation marks.
    - There are no device conflicts.
    - No hardware is listed under Other Devices.
13. If the Issue is still not resolved, see “Online Support Information” on page 195.

Other Failures

If the CRT Switch, Dock, LAN Port, external MIC or Speakers, PCI Express Card, 5-in-1 Card Reader or Volume Wheel fail, perform the following general steps to correct the problem. Do not replace a non-defective FRUs:

1. Check Drive whether is OK.
2. Check Test Fixture is ok.
3. Swap M/B to Try.

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Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, do the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If any error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Follow these procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE: Verify that all attached devices are supported by the computer.

NOTE: Verify that the power supply being used at the time of the failure is operating correctly. (See “Power On Issue” on page 138.):

1. Power-off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - Non-Acer devices
    - Printer, mouse, and other external devices
    - Battery pack
    - Hard disk drive
    - DIMM
    - CD-ROM/Diskette drive Module
    - PC Cards
4. Power-on the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failing FRU.
7. If the problem remains, replace the following FRU one at a time. Do not replace a non-defective FRU:
    - System board
    - LCD assembly

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Post Codes

These tables describe the POST codes and descriptions during the POST.

Post Code Range

Phase	POST Code Range
SEC	0x01 - 0x0F
PEI	0x70 - 0x9F
DXE	0x40 - 0x6F
BDS	0x10 - 0x3F
SMM	0xA0 - 0xBF
S3	0xC0 - 0xCF
ASL	0x51 – 0x55
	0xE1 – 0xE4
PostBDS	0xF9 – 0xFE
Reserved	0xD8 – 0xE0
	0xE5 – 0xE8

SEC Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SEC_SYSTEM_POWER_ON	SEC	1	CPU power on and switch to Protected mode
SEC_BEFORE_MICROCODE_PATCH	SEC	2	Patching CPU microcode
SEC_AFTER_MICROCODE_PATCH	SEC	3	Setup Cache as RAM
SEC_SETUP_CAR_OK	SEC	7	Cache as RAM test
SEC_GO_TO_SECSTARTUP	SEC	9	Setup BIOS ROM cache
SEC_GO_TO_PEICORE	SEC	0A	Enter Boot Firmware Volume

PEI Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_SIO_INIT	PEI	70	Super I/O Initialization
PEI_CPU_REG_INIT	PEI	71	CPU Early Initialization
PEI_CPU_AP_INIT	PEI	72	Multi-processor Early Initial
PEI_CPU_HT_RESET	PEI	73	HyperTransport Initialization
PEI_PCIE_MMIO_INIT	PEI	74	PCIE MMIO BAR Initialization
PEI_NB_REG_INIT	PEI	75	North Bridge Early Initialization
PEI_SB_REG_INIT	PEI	76	South Bridge Early Initialization
PEI_PCIE_TRAINING	PEI	77	PCIE Training
PEI_TPM_INIT	PEI	78	TPM Initialization
PEI_SMBUS_INIT	PEI	79	SMBUS Early Initialization
PEI_PROGRAM_CLOCK_GEN	PEI	7A	Clock Generator Initialization
PEI_MEMORY_INIT	PEI	7E	Memory Initial for Normal boot.
PEI_MEMORY_INIT_FOR_CRISIS	PEI	7F	Memory Initial for Crisis Recovery
PEI_MEMORY_INSTALL	PEI	80	Simple Memory test
PEI_SWITCH_STACK	PEI	82	Start to use Memory

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Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_MEMORY_CALLBACK	PEI	83	Set cache for physical memory
PEI_ENTER_RECOVERY_MODE	PEI	84	Recovery device Initialization
PEI_RECOVERY_MEDIA_FOUND	PEI	85	Found Recovery image
PEI_RECOVERY_MEDIA_NOT_FOUND	PEI	86	Recovery image not found
PEI_RECOVERY_LOAD_FILE_DONE	PEI	87	Load Recovery Image completed
PEI_RECOVERY_START_FLASH	PEI	88	Start Flash BIOS with Recovery image
PEI_ENTER_DXEIPL	PEI	89	Loading BIOS image to RAM
PEI_FINDING_DXE_CORE	PEI	8A	Loading DXE core
PEI_GO_TO_DXE_CORE	PEI	8B	Enter DXE core

DXE Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	PostCode	Description
DXE_NB_INIT	DXE	45	North bridge Middle initialization
DXE_SB_INIT	DXE	48	South Bridge Middle initialization
DXE_IDENTIFY_FLASH_DEVICE	DXE	49	Identify Flash device
DXE_FTW_INIT	DXE	4A	Fault Tolerant Write verification
DXE_VARIABLE_INIT	DXE	4B	Variable Service initialization
DXE_VARIABLE_INIT_FAIL	DXE	4C	Fail to initial Variable Service
DXE_MTC_INIT	DXE	4D	MTC Initial
DXE_CPU_INIT	DXE	4E	CPU Middle Initialization
DXE_MP_CPU_INIT	DXE	4F	Multi-processor MiddleInitialization
DXE_SMBUS_INIT	DXE	50	SMBUS Driver Initialization
DXE_SMART_TIMER_INIT	DXE	51	8259 Initialization
DXE_PCRTC_INIT	DXE	52	RTC Initialization
DXE_RELOCATE_SMBASE	DXE	56	Relocate SMM BASE
DXE_FIRST_SMI	DXE	57	SMI test
DXE_BEFORE_CSM16_INIT	DXE	59	Legacy BIOS Initialization
DXE_AFTER_CSM16_INIT	DXE	5A	Legacy interrupt function Initialization
DXE_LOAD_ACPI_TABLE	DXE	5B	ACPI Table Initialization

BDS Phase POST Code Table:

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_ENTER_BDS	BDS	10	Enter BDS entry
BDS_INSTALL_HOTKEY	BDS	11	Install Hotkey service
BDS_PCI_ENUMERATION_START	BDS	13	PCI enumeration
BDS_BEFORE_PCIIO_INSTALL	BDS	14	PCI resource assign complete
BDS_PCI_ENUMERATION_END	BDS	15	PCI enumeration complete
BDS_CONNECT_CONSOLE_IN	BDS	16	Keyboard Controller, Keyboard and Mouse initialization
BDS_CONNECT_CONSOLE_OUT	BDS	17	Video device initialization

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Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_CONNECT_STD_ERR	BDS	18	Error report device initialization
BDS_CONNECT_USB_HC	BDS	19	USB host controller initialization
BDS_CONNECT_USB_BUS	BDS	1A	USB BUS driver initialization
BDS_CONNECT_USB_DEVICE	BDS	1B	USB device driver initialization
BDS_NO_CONSOLE_ACTION	BDS	1C	Console device initial fail
BDS_DISPLAY_LOGO_SYSTEM_INFO	BDS	1D	Display logo or system information
BDS_START_IDE_CONTROLLER	BDS	1E	IDE controller initialization
BDS_START_SATA_CONTROLLER	BDS	1F	SATA controller initialization
BDS_START_ISA_ACPI_CONTROLLER	BDS	20	SIO controller initialization
BDS_START_ISA_BUS	BDS	21	ISA BUS driver initialization
BDS_START_ISA_FDD	BDS	22	Floppy device initialization
BDS_START_ISA_SEIRAL	BDS	23	Serial device initialization
BDS_START_IDE_BUS	BDS	24	IDE device initialization
BDS_START_AHCI_BUS	BDS	25	AHCI device initialization
BDS_CONNECT_LEGACY_ROM	BDS	26	Dispatch option ROMs
BDS_ENUMERATE_ALL_BOOT_OPTION	BDS	27	Get boot device information
BDS_END_OF_BOOT_SELECTION	BDS	28	End of boot selection
BDS_ENTER_SETUP	BDS	29	Enter Setup Menu
BDS_ENTER_BOOT_MANAGER	BDS	2A	Enter Boot manager
BDS_BOOT_DEVICE_SELECT	BDS	2B	Try to boot system to OS
BDS_EFI64_SHADOW_ALL_LEGACY_ROM	BDS	2C	Shadow Misc Option ROM
BDS_ACPI_S3SAVE	BDS	2D	Save S3 resume required data in RAM
BDS_READY_TO_BOOT_EVENT	BDS	2E	Last Chipset initial before boot to OS
BDS_GO_LEGACY_BOOT	BDS	2F	Start to boot Legacy OS
BDS_GO_UEFI_BOOT	BDS	30	Start to boot UEFI OS
BDS_LEGACY16_PREPARE_TO_BOOT	BDS	31	Prepare to Boot to Legacy OS
BDS_LEGACY_BOOT_EVENT	BDS	33	Last Chipset initial before boot to Legacy OS.
BDS_ENTER_LEGACY_16_BOOT	BDS	34	Ready to Boot Legacy OS.
BDS_RECOVERY_START_FLASH	BDS	35	Fast Recovery Start Flash.

PostBDS POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
POST_BDS_NO_BOOT_DEVICE	POST_BDS	F9	No Boot Device
POST_BDS_START_IMAGE	POST_BDS	FB	UEFI Boot Start Image
POST_BDS_ENTER_INT19	POST_BDS	FD	Legacy 16 boot entry
POST_BDS_JUMP_BOOT_SECTOR	POST_BDS	FE	Try to Boot with INT 19

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S3 Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
POST_BDS_NO_BOOT_DEVICE	POST_BDS	F9	No Boot Device
POST_BDS_START_IMAGE	POST_BDS	FB	UEFI Boot Start Image
POST_BDS_ENTER_INT19	POST_BDS	FD	Legacy 16 boot entry
POST_BDS_JUMP_BOOT_SECTOR	POST_BDS	FE	Try to Boot with INT 19

ACPI Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
ASL_ENTER_S1	ASL	51	Prepare to enter S1
ASL_ENTER_S3	ASL	53	Prepare to enter S3
ASL_ENTER_S4	ASL	54	Prepare to enter S4
ASL_ENTER_S5	ASL	55	Prepare to enter S5
ASL_WAKEUP_S1	ASL	E1	System wakeup from S1
ASL_WAKEUP_S3	ASL	E3	System wakeup from S3
ASL_WAKEUP_S4	ASL	E4	System wakeup from S4

SMM Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SMM_IDENTIFY_FLASH_DEVICE	SMM	0xA0	Identify Flash device in SMM
SMM_SMM_PLATFORM_INIT	SMM	0xA2	SMM service initial
SMM_ACPI_ENABLE_START	SMM	0xA6	OS call ACPI enable function
SMM_ACPI_ENABLE_END	SMM	0xA7	ACPI enable function complete
SMM_S1_SLEEP_CALLBACK	SMM	0xA1	Enter S1
SMM_S3_SLEEP_CALLBACK	SMM	0xA3	Enter S3
SMM_S4_SLEEP_CALLBACK	SMM	0xA4	Enter S4
SMM_S5_SLEEP_CALLBACK	SMM	0xA5	Enter S5
SMM_ACPI_DISABLE_START	SMM	0xA8	OS call ACPI disable function
SMM_ACPI_DISABLE_END	SMM	0xA9	ACPI disable function complete

InsydeH2ODDT Debugger POST Code Table

Functionality Name (Include\ PostCode.h)	PostCode	Description
Used by Insyde debugger	0x0D	Waiting for device connect
Used by Insyde debugger	0xD0	Waiting for device connect
Used by Insyde debugger	0xD1	InsydeH2ODDT Ready
Used by Insyde debugger	0xD2	EHCI not found
Used by Insyde debugger	0xD3	Debug port connect low speed device
Used by Insyde debugger	0xD4	DDT Cable become low speed device
Used by Insyde debugger	0xD5	DDT Cable Transmission Error (Get descriptor fail)
Used by Insyde debugger	0xD6	DDT Cable Transmission Error (Set Debug mode fail)
Used by Insyde debugger	0xD7	DDT Cable Transmission Error (Set address fail)

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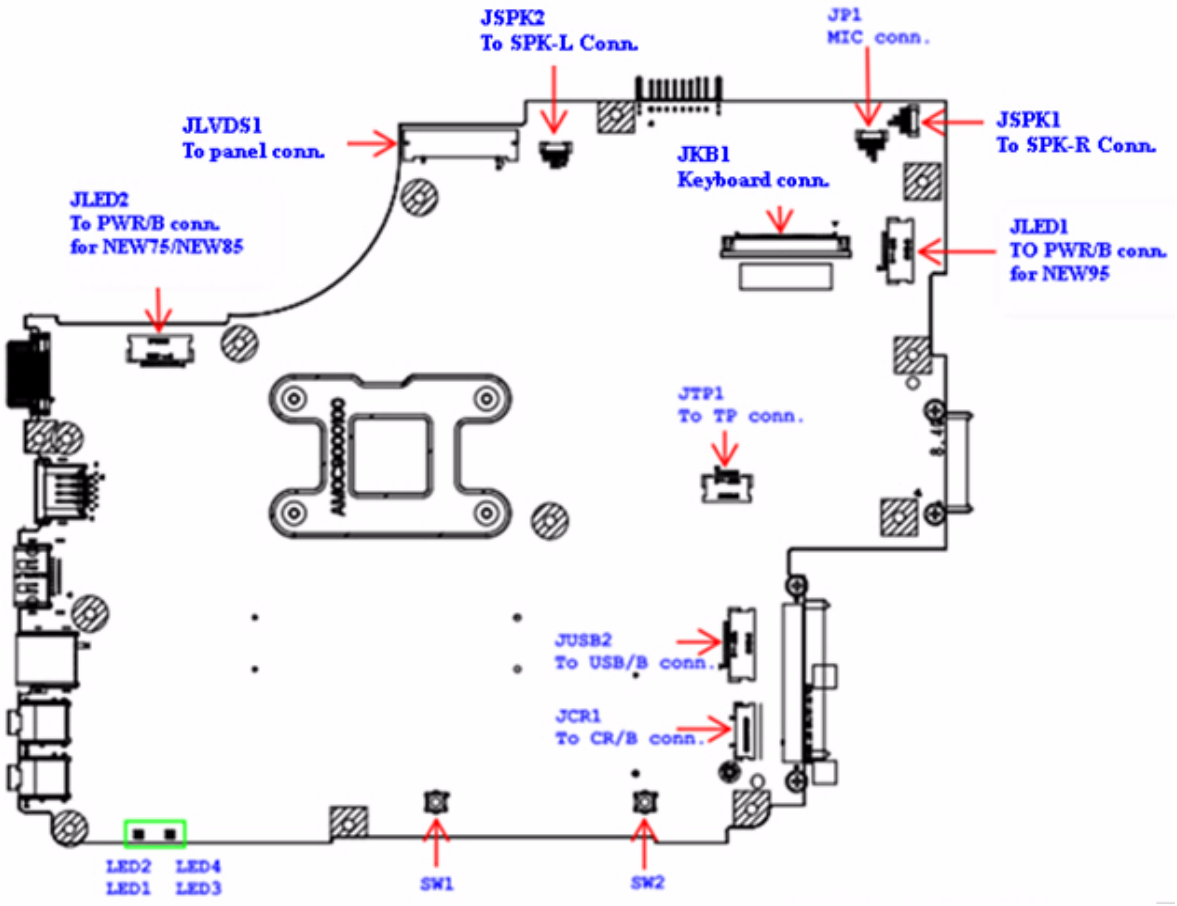
Jumper and Connector Locations

Top View



Item	Description	Item	Description
JLVDS1	Connect to LED / CCFL Panel	SW1 / SW2	Left button / Right button
JSPK1	Connect to Right Speaker	LED1 / LED2	Power State Indicator
JSPK2	Connect to Left Speaker	LED3 / LED4	Battery Charging Indicator
JKB1	Connect to Keyboard	JLED1	Connect to Power board (FFC)(NEW95)
JTP1	Connect to Touch pad (FFC)	JLED2	Connect to Power board (FFC)(NEW75/NEW85)
JUSB2	Connect to Power USB board (FFC)	JP1	Connect to internal MIC
JCR1	Connect to Card reader board (FFC)		

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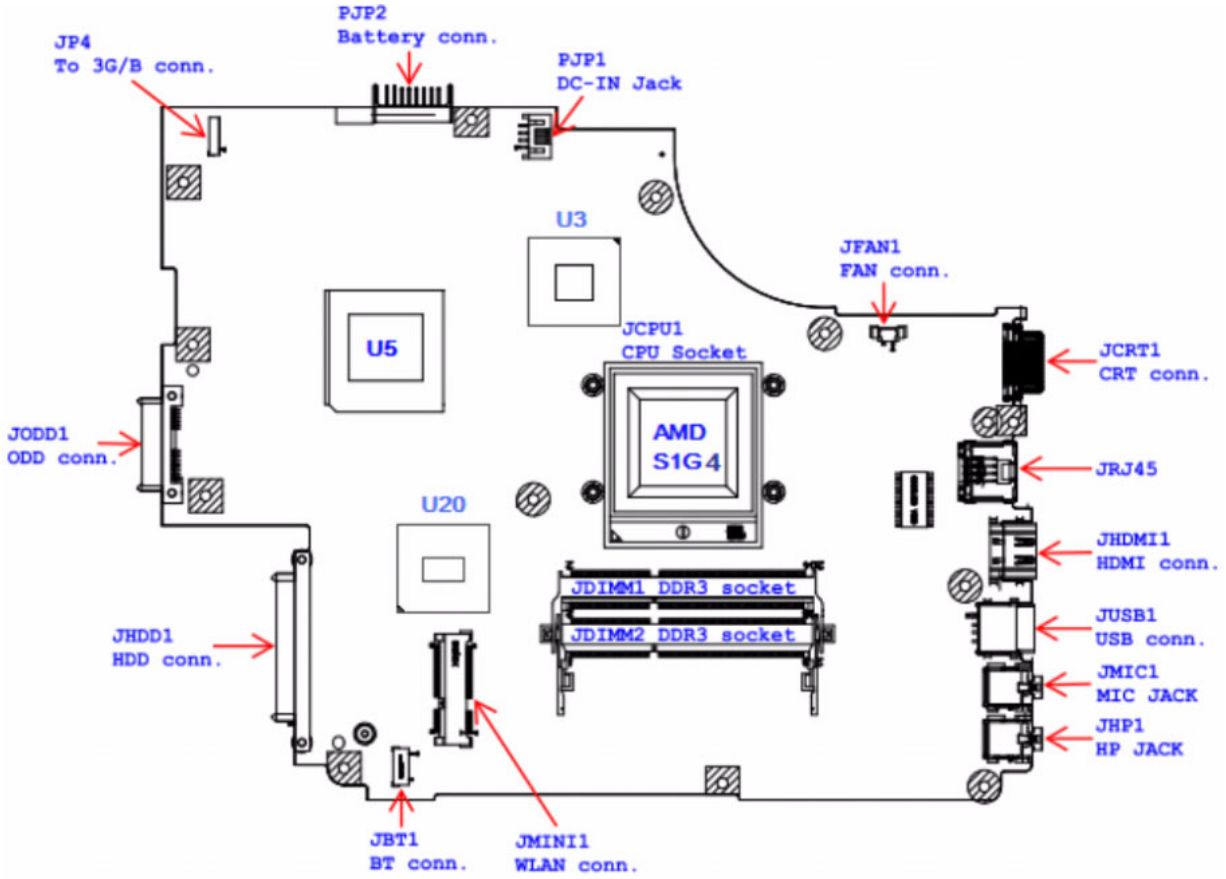
Bottom View



Item	Description	Item	Description
PJP2	Connect to Battery	JHDD1	Connect to SATA HDD
PJP1	DC-IN jack	JODD1	Connect to SATA ODD
JDIMM1 / JDIMM2	DDR3 Memory socket	JFAN1	Connect to FAN
JCRT1	Connect to external CRT	JCPU1	CPU socket S1G4
JRJ45	RJ45 LAN	U3	NB RS880M
JHDMI1	HDMI connector	U5	VGA
JMINI1	Connect to WLAN	U20	SB SB820M
JUSB1	USB Connector	JHP1	Connect to external SPDIF
JMIC1	Connect to external microphone	JBT1	Connect to BT

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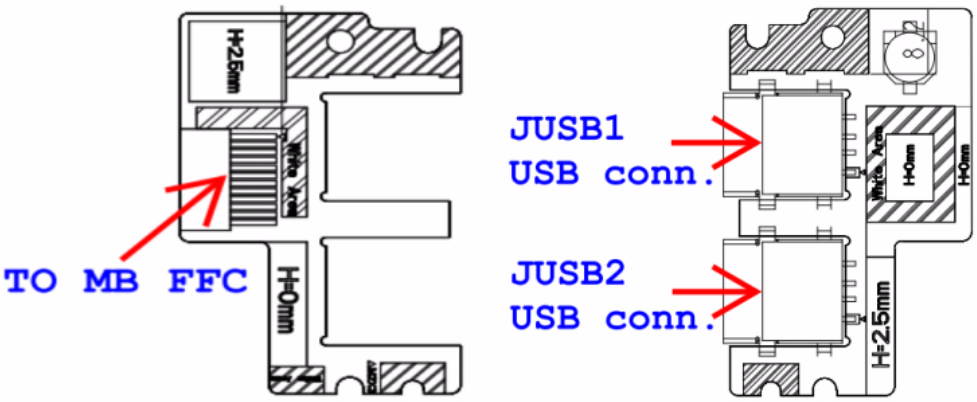
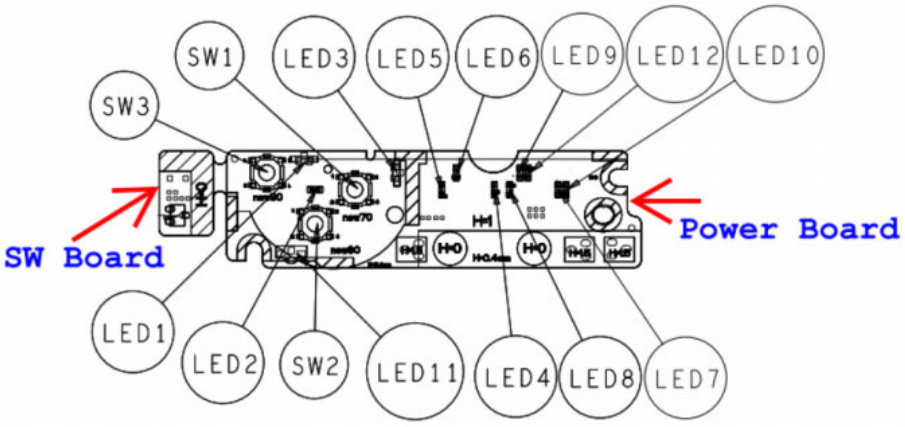
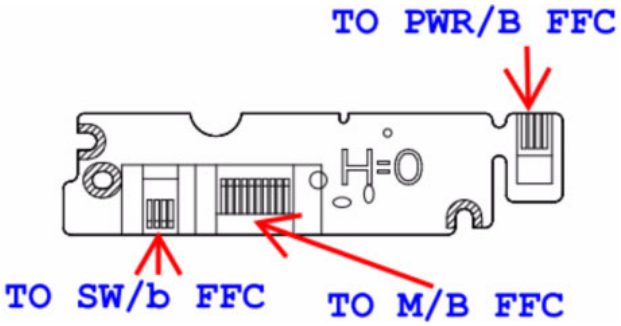
USB/B Board



Item	Description
JUSB1/JUSB2	USB Connector

Power Board





ITEM	DESCRIPTION	ITEM	DESCRIPTION
LED1	For NEW75 ON/OFF LED	LED9	Not Use
LED2	For NEW85 ON/OFF LED	LED10	For NEW75 WLAN LED
LED3	For NEW95 ON/OFF LED	LED11	Not Use
LED4	For NEW75 MEDIA LED	LED12	For NEW95 WLAN LED
LED5	For NEW85 MEDIA LED	SW1	For NEW75 Power BTN
LED6	For NEW95 MEDIA LED	SW2	For NEW85 Power BTN
LED7	For NEW75 WWAN LED	SW3	For NEW95 Power BTN

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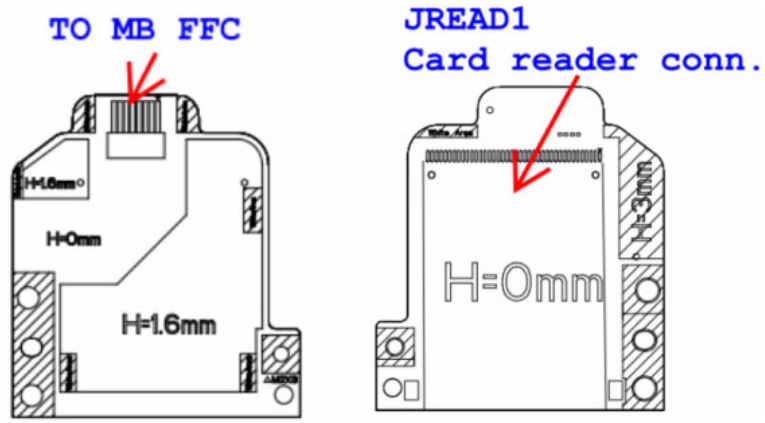
ITEM	DESCRIPTION	ITEM	DESCRIPTION
LED8	For NEW85 WLAN LED		

CR/B Board



ITEM	DESCRIPTION
JREAD1	Card reader connector

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Clearing Password Check and BIOS Recovery

This section provides you with the standard operating procedures of clearing password and BIOS recovery for the Aspire 5251/5551G/5551. The machine provides one Hardware Open Gap on main board for clearing password check, and one Hotkey for enabling BIOS Recovery.

Clearing Password Check

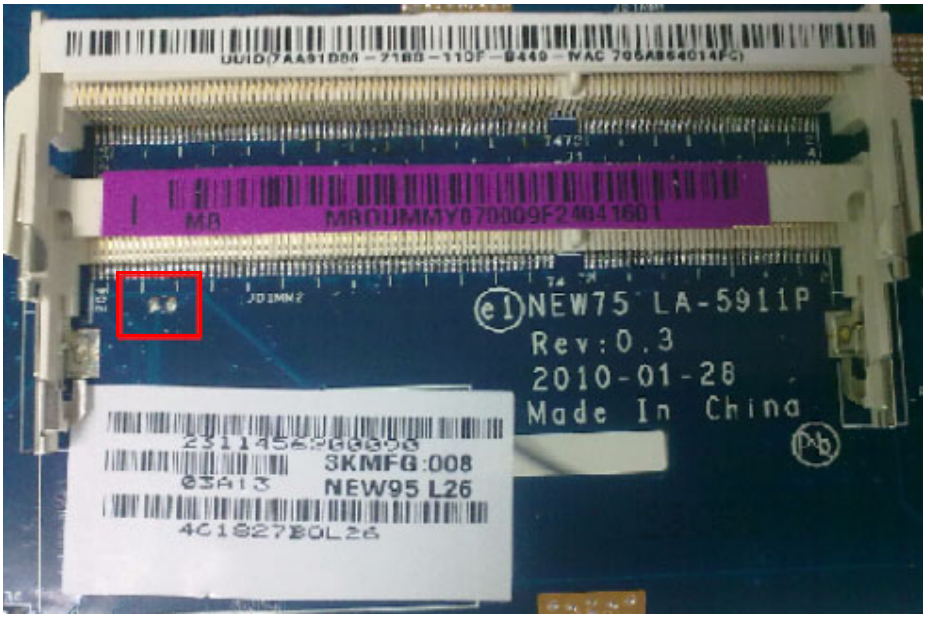
Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

1. Power Off the system, and remove HDD, AC and Battery from the machine.
2. Disconnect the RTC Battery cable and locate the J1 jumper.
3. Use an electric conductivity tool to short the two points of the HW Gap.
4. Plug in AC, keeping the HW Gap shorted. Press Power Button utill BIOS POST is finished, then remove the tool from the HW Gap.
5. Restart the system. Press **F2** key to enter BIOS Setup menu.
6. If there is no Password request, BIOS Password is cleared. Otherwise, please follow the steps and try again.

NOTE: These steps are only for clearing BIOS Password (Supervisor Password and User Password).

Clear CMOS Jumper



Item	Description
J1	Clear CMOS Jumper

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BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block:

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

BIOS Recovery Hotkey:

The system provides a function hotkey: **Fn+Esc**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

Steps for BIOS Recovery from USB Storage:

Before doing this, prepare the Crisis USB key. The Crisis USB key could be made by executing the Crisis Disk program in another system with Windows 7 OS.

Follow the steps below:

1. Format the USB storage disk using the Fast Format option.
2. Save ROM file (file name: **NEW75x64.fd**) to BIOS.FD in the root directory. Make sure that there is no other BIOS file saved in the same directory.
3. Plug USB storage into USB port.
4. Press **Fn + ESC** button then plug in AC power.
5. Press **Power** button to initiate system CRISIS mode.

   When CRISIS is complete, the system auto restarts with a workable BIOS.
6. Update the latest version BIOS for this machine by regular BIOS flashing process.

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Chapter 6

FRU (Field Replaceable Unit) List

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Aspire 5251/5551G/5551. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

Please note that WHEN ORDERING FRU PARTS, you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.

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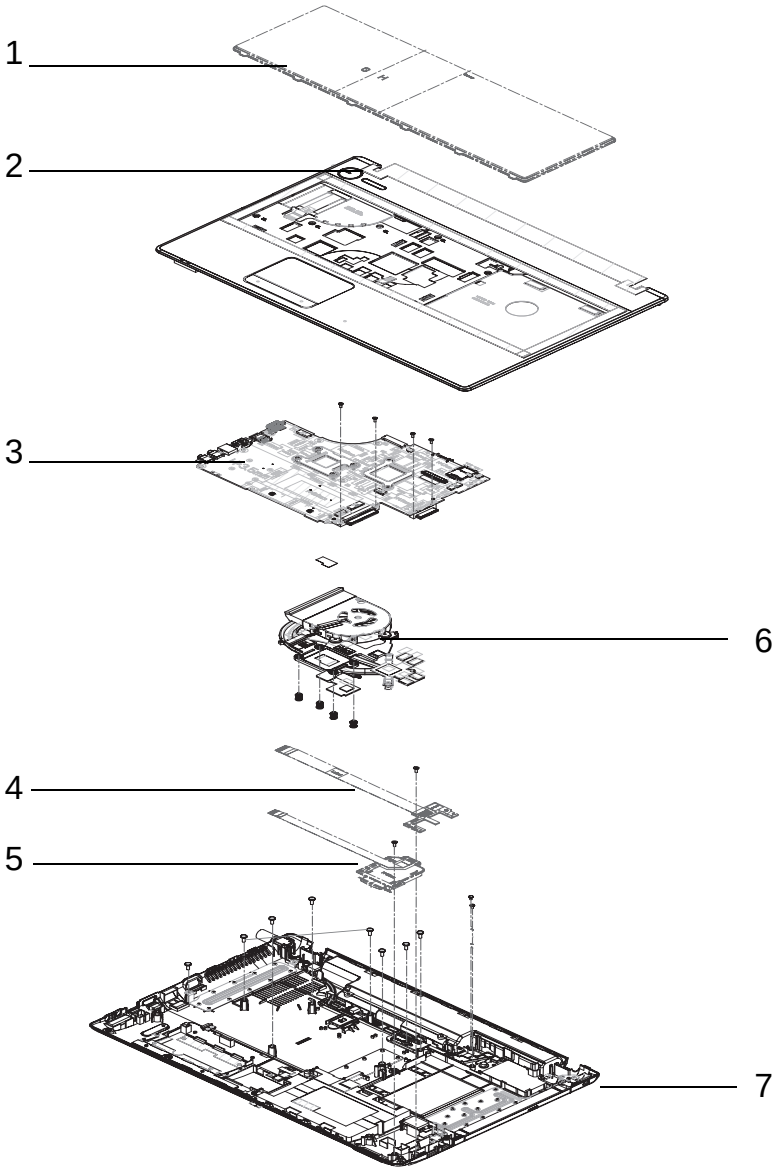
Aspire 5251/5551G/5551 Exploded Diagrams

Main Assembly



No.	Description	Acer P/N
1	Keyboard	
2	Upper Cover	
3	Mainboard	
4	USB Board	
5	Card Reader Board	
6	Thermal Module	
7	Lower Cover	

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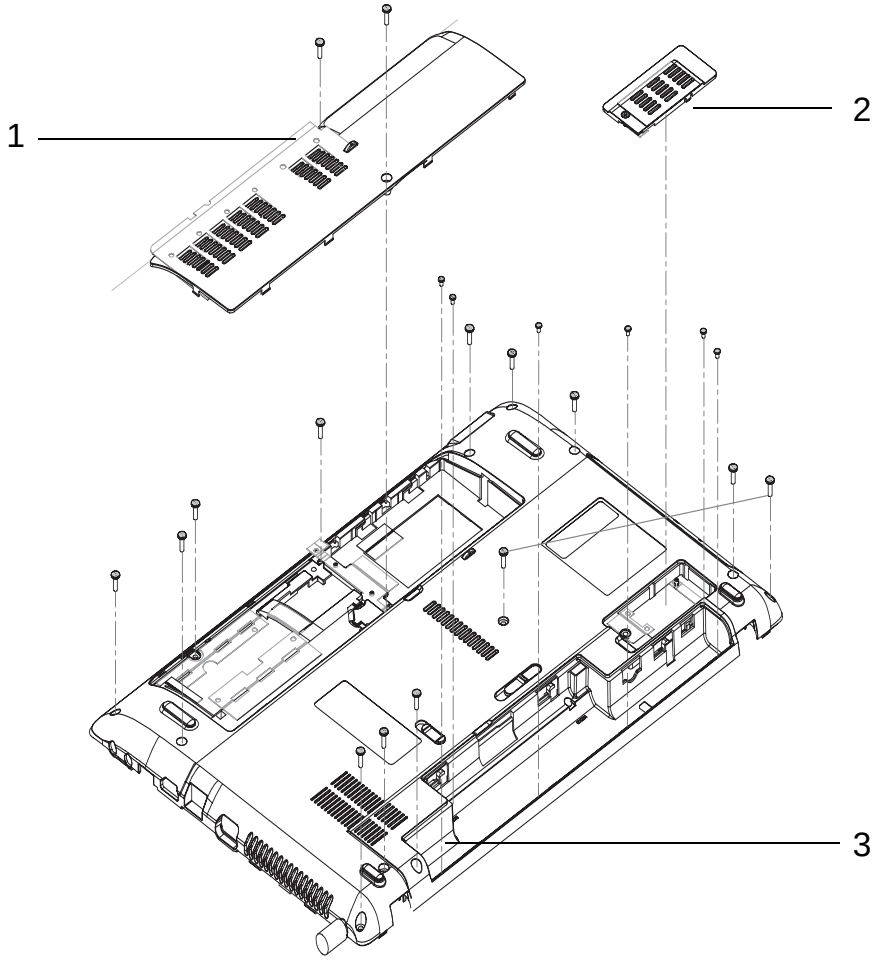
Base Assembly



No.	Description	Acer P/N
1	Logic Lower Door	
2	3G Door	
3	Lower Cover	

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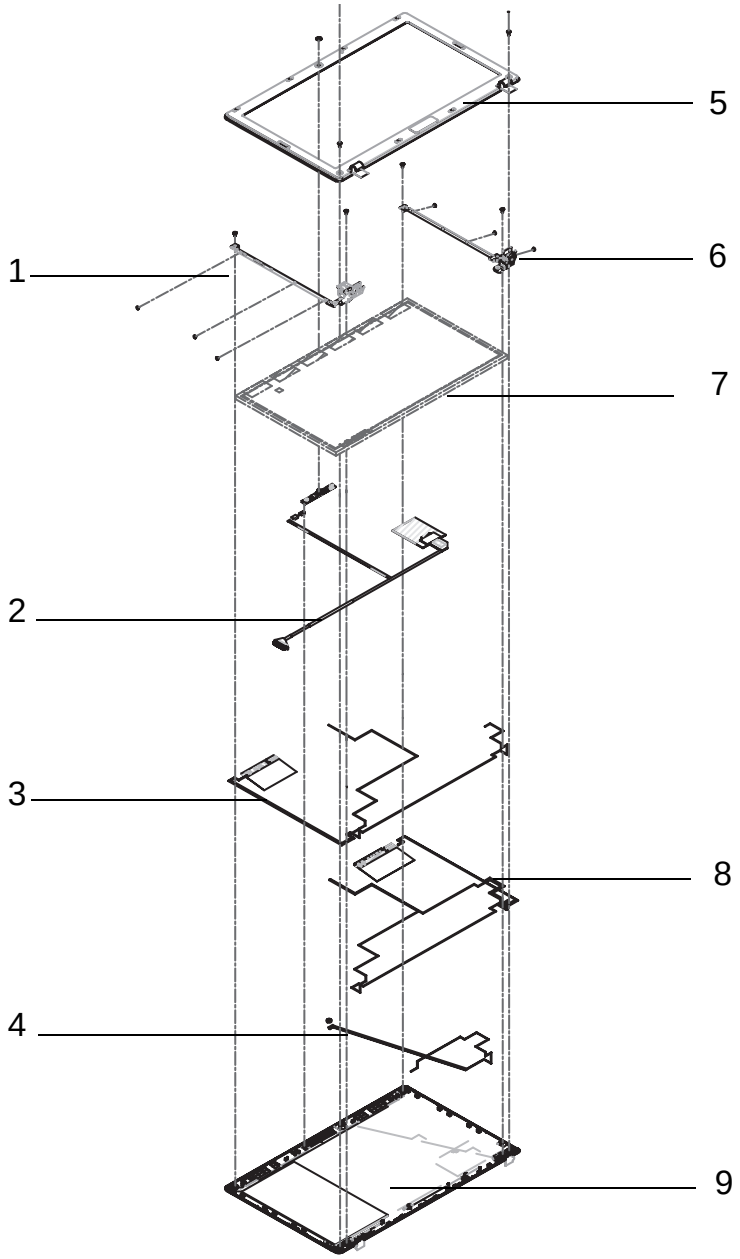
LED Assembly



No.	Description	Acer P/N
1	LCD Bracket (L)	
2	LVDS Cable	
3	ANTENNA WLAN-MAIN	
4	Microphone Cable	
5	LCD Bezel	
6	LCD Bracket (R)	
7	LCD Panel	
8	ANTENNA WLAN-AUX	
9	LCD Cover	

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Aspire 5251/5551G/5551 FRU List

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Screw List

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Model Definition and Configuration

Aspire 5251

Model	Acer Part No	RO	Country	Description
AS5251-1202G25Mn	LX.PWJ02.005	PA	USA	AS5251-1202G25Mn W7HP64ATUS1 MC UMACkk_3 2*1G/250/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB5
AS5251-1202G16Mn	LX.PWJ02.004	PA	USA	AS5251-1202G16Mn W7HP64ATUS1 MC UMACkk_3 2*1G/160/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB1
AS5251-1203G16Mn	LX.PWJ02.003	PA	USA	AS5251-1203G16Mn W7HP64ATUS1 MC UMACkk_3 2G+1G/160/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB1
AS5251-1203G25Mn	LX.PWJ02.002	PA	USA	AS5251-1203G25Mn W7HP64ATUS1 MC UMACkk_3 2G+1G/250/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB1
AS5251-1202G25Mn	LX.PWJ02.001	PA	USA	AS5251-1202G25Mn W7HP64ATUS1 MC UMACkk_3 2*1G/250/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB3
AS5251-1202G25Mn	S2.PWJ02.001	WW	WW	AS5251-1202G25Mn W7HP64AWW1 MC UMACkk_3 2*1G/250/6L2.2/5R/ CB_bgn_1.3C_GEk_ES62
AS5251-1202G25Mn	LX.PUX02.001	PA	USA	AS5251-1202G25Mn W7HP64ATUS1 MC UMACsk_3 2*1G/250/6L2.2/5R/ CB_bgn_1.3C_GEs_FRB3
AS5251-N122G32Mn	S2.PUX0C.001	WW	WW	AS5251-N122G32Mn LINPUSAWW1 UMACsk_3 2*1G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11

Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5251-1202G25Mn	LX.PWJ02.005	AMDV120	NLED15.6WX GAG	UMA	N	SO1GBIII10
AS5251-1202G16Mn	LX.PWJ02.004	AMDV120	NLED15.6WX GAG	UMA	N	SO1GBIII10
AS5251-1203G16Mn	LX.PWJ02.003	AMDV120	NLED15.6WX GAG	UMA	N	SO2GBIII10
AS5251-1203G25Mn	LX.PWJ02.002	AMDV120	NLED15.6WX GAG	UMA	N	SO2GBIII10
AS5251-1202G25Mn	LX.PWJ02.001	AMDV120	NLED15.6WX GAG	UMA	N	SO1GBIII10
AS5251-1202G25Mn	S2.PWJ02.001	AMDV120	NLED15.6WX GAG	UMA	N	SO1GBIII10
AS5251-1202G25Mn	LX.PUX02.001	AMDV120	NLED15.6WX GAG	UMA	N	SO1GBIII10

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5251-N122G32Mn	S2.PUX0C.001	SMPN120	NLED15.6WXGAG	UMA	N	SO1GBIII10

Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5251-1202G25Mn	LX.PWJ02.005	SO1GBIII10	N	N	N250GB5.4KS	N
AS5251-1202G16Mn	LX.PWJ02.004	SO1GBIII10	N	N	N160GB5.4KS	N
AS5251-1203G16Mn	LX.PWJ02.003	SO1GBIII10	N	N	N160GB5.4KS	N
AS5251-1203G25Mn	LX.PWJ02.002	SO1GBIII10	N	N	N250GB5.4KS	N
AS5251-1202G25Mn	LX.PWJ02.001	SO1GBIII10	N	N	N250GB5.4KS	N
AS5251-1202G25Mn	S2.PWJ02.001	SO1GBIII10	N	N	N250GB5.4KS	N
AS5251-1202G25Mn	LX.PUX02.001	SO1GBIII10	N	N	N250GB5.4KS	N
AS5251-N122G32Mn	S2.PUX0C.001	SO1GBIII10	N	N	N320GB5.4KS	N

Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5251-1202G25Mn	LX.PWJ02.005	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1202G16Mn	LX.PWJ02.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1203G16Mn	LX.PWJ02.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1203G25Mn	LX.PWJ02.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1202G25Mn	LX.PWJ02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1202G25Mn	S2.PWJ02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-1202G25Mn	LX.PUX02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5251-N122G32Mn	S2.PUX0C.001	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN

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Aspire 5551G

Model	Acer Part No	RO	Country	Description
AS5551G-N834G50Mn	LX.PUU02.021	EMEA	Denmark	AS5551G-N834G50Mn W7HP64ATDK2 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_ENS1
AS5551G-N834G50Mn	LX.PUU02.020	EMEA	Turkey	AS5551G-N834G50Mn EM W7HP64EMATTR1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_TR31
AS5551G-N834G50Mn	LX.PUU01.004	EMEA	Turkey	AS5551G-N834G50Mn EM W7HB64EMATTR1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ BT/6L2.2/5R/CB_bgn_1.3C_GEs_TR31
AS5551G-N832G32Mn	LX.PUU01.003	CHINA	China	AS5551G-N832G32Mn W7HB64SCATCN1 MC MADISON_PRO1GBCsk_3V3 1*2G/320/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_SC13
AS5551G-N834G32Mi	LX.PUU01.001	EMEA	Russia	AS5551G-N834G32Mi W7HB64RUATRU1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/6L2.2/ 5R/CB_bg_1.3C_GEs_RU11
AS5551G-N832G50Mn	LX.PUU01.002	CHINA	China	AS5551G-N832G50Mn W7HB64SCATCN1 MC MADISON_PRO1GBCsk_3V3 1*2G/500_L/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_SC13
AS5551G-N834G50Mn	LX.PUU02.019	EMEA	Italy	AS5551G-N834G50Mn W7HP64ATIT1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_IT11
AS5551G-P524G64Mn	LX.PUU02.018	EMEA	Italy	AS5551G-P524G64Mn W7HP64ATIT1 MC MADISON_PRO1GBCsk_3V3 2*2G/640/6L2.2/ 5R/CB_bgn_1.3C_GEs_IT11
AS5551G-P324G32Mn	LX.PUU02.017	EMEA	Italy	AS5551G-P324G32Mn W7HP64ATIT1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_IT11
AS5551G-P324G50Mn	LX.PUU02.016	AAP	Australia/ New Zealand	AS5551G-P324G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P324G32Mn	LX.PUU02.015	AAP	Australia/ New Zealand	AS5551G-P324G32Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P324G50Mn	LX.PUU02.012	AAP	Australia/ New Zealand	AS5551G-P324G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P324G32Mn	LX.PUU02.010	AAP	Australia/ New Zealand	AS5551G-P324G32Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P524G64Mn	LX.PUU02.009	AAP	Australia/ New Zealand	AS5551G-P524G64Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/640/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P524G50Mn	LX.PUU02.008	AAP	Australia/ New Zealand	AS5551G-P524G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P524G64Mn	LX.PUU02.007	AAP	Australia/ New Zealand	AS5551G-P524G64Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/640/6L2.2/ 5R/CB_bgn_1.3C_GEs_ES61
AS5551G-P524G50Mn	LX.PUU02.006	AAP	Australia/ New Zealand	AS5551G-P524G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61

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Model	Acer Part No	RO	Country	Description
AS5551G-N534G50Mn	LX.PUU02.005	AAP	Australia/ New Zealand	AS5551G-N534G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-N534G50Mn	LX.PUU02.004	AAP	Australia/ New Zealand	AS5551G-N534G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-N534G32Mn	LX.PUU02.003	AAP	Australia/ New Zealand	AS5551G-N534G32Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_ES61
AS5551G-N334G32Mn	LX.PUU02.002	AAP	Australia/ New Zealand	AS5551G-N334G32Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_ES61
AS5551G-N334G50Mn	LX.PUU02.001	AAP	Australia/ New Zealand	AS5551G-N334G50Mn W7HP64ATAU1 MC MADISON_PRO1GBCsk_3V3 2*2G/500_L/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES61
AS5551G-N534G64Bn	S2.PUU02.001	WW	WW	AS5551G-N534G64Bn W7HP64AWW1 MC MADISON_PRO1GBCsk_3V3 2*2G/640/BT/ 6L2.2/5R/CB_bgn_1.3C_GEs_ES62
AS5551G-N834G64Mn	LX.PUS02.010	EMEA	Germany	AS5551G-N834G64Mn W7HP64ATDE1 MC PARK_XT512Csk_3V3 2*2G/640/6L2.2/5R/ CB_bgn_1.3C_GEs_DE11
AS5551G-P522G25Mn	LX.PUS02.016	TWN	GCTWN	AS5551G-P522G25Mn W7HP64ATTW1 MC PARK_XT512Csk_3V3 1*2G/250/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_TC11
AS5551G-N833G32Mn	LX.PUS01.004	EMEA	Turkey	AS5551G-N833G32Mn EM W7HB64EMATTR1 MC PARK_XT512Csk_3V3 2G+1G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_TR31
AS5551G-N833G32Mn	LX.PUS02.015	EMEA	Turkey	AS5551G-N833G32Mn EM W7HP64EMATTR1 MC PARK_XT512Csk_3V3 2G+1G/320/6L2.2/ 5R/CB_bgn_1.3C_GEs_TR31
AS5551G-P524G32Mi	LX.PUS01.003	EMEA	Russia	AS5551G-P524G32Mi W7HB64RUATRU1 MC PARK_XT512Csk_3V3 2*2G/320/6L2.2/5R/ CB_bg_1.3C_GEs_RU11
AS5551G-P323G25Mi	LX.PUS01.002	EMEA	Russia	AS5551G-P323G25Mi W7HB64RUATRU1 MC PARK_XT512Csk_3V3 2G+1G/250/6L2.2/5R/ CB_bg_1.3C_GEs_RU11
AS5551G-N834G50Mn	LX.PUS02.014	EMEA	Denmark	AS5551G-N834G50Mn W7HP64ATDK2 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_ENS1
AS5551G-P524G50Mn	LX.PUS02.013	EMEA	Germany	AS5551G-P524G50Mn W7HP64ATDE1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_DE11
AS5551G-N834G32Mn	LX.PUS02.012	EMEA	Italy	AS5551G-N834G32Mn W7HP64ATIT1 MC PARK_XT512Csk_3V3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_IT11
AS5551G-P524G50Mn	LX.PUS02.011	EMEA	Italy	AS5551G-P524G50Mn W7HP64ATIT1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_IT11
AS5551G-N833G25Mi	LX.PUS01.001	EMEA	Russia	AS5551G-N833G25Mi W7HB64RUATRU1 MC PARK_XT512Csk_3V3 2G+1G/250/6L2.2/5R/ CB_bg_1.3C_GEs_RU11

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Model	Acer Part No	RO	Country	Description
AS5551G-P324G50Mn	LX.PUS02.009	EMEA	Spain	AS5551G-P324G50Mn W7HP64ATES1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_ES51
AS5551G-N834G50Mn	LX.PUS02.008	EMEA	Spain	AS5551G-N834G50Mn W7HP64ATES1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_ES51
AS5551G-N534G32Mn	S2.PUS0C.001	WW	WW	AS5551G-N534G32Mn LINPUSAWW1 PARK_XT512Csk_3V3 2*2G/320/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551G-N834G50Mn	LX.PUS02.007	EMEA	Italy	AS5551G-N834G50Mn W7HP64ATIT1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_IT11
AS5551G-N834G50Mn	LX.PUS02.006	EMEA	UK	AS5551G-N834G50Mn W7HP64ATGB1 MC PARK_XT512Csk_3V3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551G-P322G32Mn	LX.PUS02.005	AAP	Australia/ New Zealand	AS5551G-P322G32Mn W7HP64ATAU1 MC PARK_XT512Csk_3V3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551G-N534G32Mn	LX.PUS02.004	AAP	Australia/ New Zealand	AS5551G-N534G32Mn W7HP64ATAU1 MC PARK_XT512Csk_3V3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551G-N532G32Mn	LX.PUS02.003	AAP	Australia/ New Zealand	AS5551G-N532G32Mn W7HP64ATAU1 MC PARK_XT512Csk_3V3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551G-N334G32Mn	LX.PUS02.002	AAP	Australia/ New Zealand	AS5551G-N334G32Mn W7HP64ATAU1 MC PARK_XT512Csk_3V3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551G-N332G32Mn	LX.PUS02.001	AAP	Australia/ New Zealand	AS5551G-N332G32Mn W7HP64ATAU1 MC PARK_XT512Csk_3V3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61

Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5551G-N834G50Mn	LX.PUU02.021	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUU02.020	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUU01.004	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N832G32Mn	LX.PUU01.003	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N834G32Mi	LX.PUU01.001	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N832G50Mn	LX.PUU01.002	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUU02.019	APN830	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P524G64Mn	LX.PUU02.018	ATP520	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P324G32Mn	LX.PUU02.017	AAP320	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5551G-P324G50Mn	LX.PUU02.016	AAP320	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P324G32Mn	LX.PUU02.015	AAP320	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P324G50Mn	LX.PUU02.012	AAP320	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P324G32Mn	LX.PUU02.010	AAP320	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P524G64Mn	LX.PUU02.009	ATP520	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P524G50Mn	LX.PUU02.008	ATP520	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P524G64Mn	LX.PUU02.007	ATP520	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-P524G50Mn	LX.PUU02.006	ATP520	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N534G50Mn	LX.PUU02.005	ATN530	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N534G50Mn	LX.PUU02.004	ATN530	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N534G32Mn	LX.PUU02.003	ATN530	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N334G32Mn	LX.PUU02.002	AAN330	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N334G50Mn	LX.PUU02.001	AAN330	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N534G64Bn	S2.PUU02.001	ATN530	NLED15.6 WXGAG	MADISON_PRO	1G-DDR3 (64*16*8)	SO2GBIII10
AS5551G-N834G64Mn	LX.PUS02.010	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P522G25Mn	LX.PUS02.016	ATP520	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N833G32Mn	LX.PUS01.004	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N833G32Mn	LX.PUS02.015	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P524G32Mi	LX.PUS01.003	ATP520	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P323G25Mi	LX.PUS01.002	AAP320	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUS02.014	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5551G-P524G50Mn	LX.PUS02.013	ATP520	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N834G32Mn	LX.PUS02.012	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P524G50Mn	LX.PUS02.011	ATP520	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N833G25Mi	LX.PUS01.001	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P324G50Mn	LX.PUS02.009	AAP320	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUS02.008	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N534G32Mn	S2.PUS0C.001	ATN530	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUS02.007	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N834G50Mn	LX.PUS02.006	APN830	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-P322G32Mn	LX.PUS02.005	AAP320	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N534G32Mn	LX.PUS02.004	ATN530	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N532G32Mn	LX.PUS02.003	ATN530	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N334G32Mn	LX.PUS02.002	AAN330	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10
AS5551G-N332G32Mn	LX.PUS02.001	AAN330	NLED15.6 WXGAG	PARK_XT	512M-DDR3 (64*16*4)	SO2GBIII10

Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551G-N834G50Mn	LX.PUU02.021	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUU02.020	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUU01.004	SO2GBIII10	N	N	N500GB5.4 KS	N

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Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551G-N832G32Mn	LX.PUU01.003	N	N	N	N320GB5.4 KS	N
AS5551G-N834G32Mi	LX.PUU01.001	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N832G50Mn	LX.PUU01.002	N	N	N	N500GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUU02.019	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P524G64Mn	LX.PUU02.018	SO2GBIII10	N	N	N640GB5.4 KS	N
AS5551G-P324G32Mn	LX.PUU02.017	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-P324G50Mn	LX.PUU02.016	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P324G32Mn	LX.PUU02.015	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-P324G50Mn	LX.PUU02.012	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P324G32Mn	LX.PUU02.010	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-P524G64Mn	LX.PUU02.009	SO2GBIII10	N	N	N640GB5.4 KS	N
AS5551G-P524G50Mn	LX.PUU02.008	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P524G64Mn	LX.PUU02.007	SO2GBIII10	N	N	N640GB5.4 KS	N
AS5551G-P524G50Mn	LX.PUU02.006	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N534G50Mn	LX.PUU02.005	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N534G50Mn	LX.PUU02.004	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N534G32Mn	LX.PUU02.003	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N334G32Mn	LX.PUU02.002	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N334G50Mn	LX.PUU02.001	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N534G64Bn	S2.PUU02.001	SO2GBIII10	N	N	N640GB5.4 KS	N
AS5551G-N834G64Mn	LX.PUS02.010	SO2GBIII10	N	N	N640GB5.4 KS	N
AS5551G-P522G25Mn	LX.PUS02.016	N	N	N	N250GB5.4 KS	N
AS5551G-N833G32Mn	LX.PUS01.004	SO1GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N833G32Mn	LX.PUS02.015	SO1GBIII10	N	N	N320GB5.4 KS	N

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Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551G-P524G32Mi	LX.PUS01.003	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-P323G25Mi	LX.PUS01.002	SO1GBIII10	N	N	N250GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUS02.014	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P524G50Mn	LX.PUS02.013	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N834G32Mn	LX.PUS02.012	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-P524G50Mn	LX.PUS02.011	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N833G25Mi	LX.PUS01.001	SO1GBIII10	N	N	N250GB5.4 KS	N
AS5551G-P324G50Mn	LX.PUS02.009	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUS02.008	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N534G32Mn	S2.PUS0C.001	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUS02.007	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-N834G50Mn	LX.PUS02.006	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551G-P322G32Mn	LX.PUS02.005	N	N	N	N320GB5.4 KS	N
AS5551G-N534G32Mn	LX.PUS02.004	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N532G32Mn	LX.PUS02.003	N	N	N	N320GB5.4 KS	N
AS5551G-N334G32Mn	LX.PUS02.002	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551G-N332G32Mn	LX.PUS02.001	N	N	N	N320GB5.4 KS	N

Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551G-N834G50Mn	LX.PUU02.021	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUU02.020	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUU01.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N832G32Mn	LX.PUU01.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G32Mi	LX.PUU01.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi BG

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Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551G-N832G50Mn	LX.PUU01.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUU02.019	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G64Mn	LX.PUU02.018	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P324G32Mn	LX.PUU02.017	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P324G50Mn	LX.PUU02.016	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P324G32Mn	LX.PUU02.015	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P324G50Mn	LX.PUU02.012	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P324G32Mn	LX.PUU02.010	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G64Mn	LX.PUU02.009	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G50Mn	LX.PUU02.008	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G64Mn	LX.PUU02.007	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G50Mn	LX.PUU02.006	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G50Mn	LX.PUU02.005	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G50Mn	LX.PUU02.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G32Mn	LX.PUU02.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N334G32Mn	LX.PUU02.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N334G50Mn	LX.PUU02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G64Bn	S2.PUU02.001	NBDCB4XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G64Mn	LX.PUS02.010	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P522G25Mn	LX.PUS02.016	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N833G32Mn	LX.PUS01.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N833G32Mn	LX.PUS02.015	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G32Mi	LX.PUS01.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi BG
AS5551G-P323G25Mi	LX.PUS01.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi BG

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Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551G-N834G50Mn	LX.PUS02.014	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G50Mn	LX.PUS02.013	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G32Mn	LX.PUS02.012	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P524G50Mn	LX.PUS02.011	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N833G25Mi	LX.PUS01.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi BG
AS5551G-P324G50Mn	LX.PUS02.009	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUS02.008	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G32Mn	S2.PUS0C.001	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUS02.007	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N834G50Mn	LX.PUS02.006	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-P322G32Mn	LX.PUS02.005	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N534G32Mn	LX.PUS02.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N532G32Mn	LX.PUS02.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N334G32Mn	LX.PUS02.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551G-N332G32Mn	LX.PUS02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN

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Aspire 5551

Model	Acer Part No	RO	Country	Description
AS5551-P324G50Mn	LX.PWK02.011	PA	Canada	AS5551-P324G50Mn W7HP64ATCA2 MC UMACkk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEk_FR81
AS5551-P323G32Mn	LX.PWK02.010	PA	Chile	AS5551-P323G32Mn EM W7HP64EMATCL3 MC UMACkk_3 2G+1G/ 320/6L2.2/5R/CB_bgn_1.3C_GEk_ES51
AS5551-P323G32Mn	LX.PWK02.009	PA	ACLA-Spanish	AS5551-P323G32Mn EM W7HP64EMATEA4 MC UMACkk_3 2G+1G/ 320/6L2.2/5R/CB_bgn_1.3C_GEk_EN31
AS5551-P323G32Mn	LX.PWK02.008	PA	ACLA-Spanish	AS5551-P323G32Mn EM W7HP64EMATEA1 MC UMACkk_3 2G+1G/ 320/6L2.2/5R/CB_bgn_1.3C_GEk_ES51
AS5551-P323G32Mn	LX.PWK02.007	PA	ACLA-Spanish	AS5551-P323G32Mn EM W7HP64EMATEA3 MC UMACkk_3 2G+1G/ 320/6L2.2/5R/CB_bgn_1.3C_GEk_ES51
AS5551-P323G32Mn	LX.PWK02.006	PA	ACLA-Portuguese	AS5551-P323G32Mn EM W7HP64EMATXC3 MC UMACkk_3 2G+1G/ 320/6L2.2/5R/CB_bgn_1.3C_GEk_EN61
AS5551-P324G32Mn	LX.PWK02.005	EMEA	Italy	AS5551-P324G32Mn W7HP64ATIT1 MC UMACkk_3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEk_IT11
AS5551-P524G50Mn	LX.PWK02.004	PA	USA	AS5551-P524G50Mn W7HP64ATUS1 MC UMACkk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB1
AS5551-P323G32Mn	LX.PWK02.003	PA	USA	AS5551-P323G32Mn W7HP64ATUS1 MC UMACkk_3 2G+1G/320/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB1
AS5551-P324G64Mn	LX.PWK02.001	EMEA	Spain	AS5551-P324G64Mn W7HP64ATES1 MC UMACkk_3 2*2G/640/6L2.2/5R/ CB_bgn_1.3C_GEk_ES51
AS5551-P323G32Mn	LX.PWK02.002	PA	USA	AS5551-P323G32Mn W7HP64ATUS1 MC UMACkk_3 2G+1G/320/6L2.2/5R/ CB_bgn_1.3C_GEk_FRB3
AS5551-P324G50Mn	S2.PWK02.001	WW	WW	AS5551-P324G50Mn W7HP64AWW1 MC UMACkk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEk_ES62
AS5551-P52_BR3G25M_brn	LX.PWP01.002	PA	ACLA-Portuguese	AS5551-P52_BR3G25M_brn EM W7HB64EMATXC2 MC UMACkk_3_BR 2G+1G/250_BR/6L2.2_BR/5R/ CBBR_bgn_1.3C_GEk_XC21
AS5551-1_BR3G25M_brn	LX.PWP01.001	PA	ACLA-Portuguese	AS5551-1_BR3G25M_brn EM W7HB64EMATXC2 MC UMACkk_3_BR 2G+1G/250_BR/6L2.2_BR/5R/ CBBR_bgn_1.3C_GEk_XC21
AS5551-1_BR2G25M_brn	S2.PWP02.001	WW	WW	AS5551-1_BR2G25M_brn W7HP64AWW1 MC UMACkk_3_BR 1*2G/250_BR/ 6L2.2_BR/5R/CBBR_bgn_1.3C_GEk_ES62
AS5551-P522G25Mn	LX.PTQ02.022	TWN	GCTWN	AS5551-P522G25Mn W7HP64ATTW1 MC UMACsk_3 1*2G/250/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_TC11

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Model	Acer Part No	RO	Country	Description
AS5551-N832G32Mn	LX.PTQ02.021	TWN	GCTWN	AS5551-N832G32Mn W7HP64ATTW1 MC UMACsk_3 1*2G/320/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_TC11
AS5551-P323G25Mi	LX.PTQ01.001	EMEA	Russia	AS5551-P323G25Mi W7HB64RUATRU1 MC UMACsk_3 2G+1G/250/6L2.2/5R/ CB_bg_1.3C_GEs_RU11
AS5551-P321G16Mn	LX.PTQ0C.002	EMEA	Middle East	AS5551-P321G16Mn LINPUSAME6 UMACsk_3 1*1G/160/6L2.2/5R/ CB_bgn_1.3C_GEs_EN13
AS5551-P321G16Mn	LX.PTQ0C.001	EMEA	Middle East	AS5551-P321G16Mn LINPUSAME6 UMACsk_3 1*1G/160/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_EN13
AS5551-N834G50Mn	LX.PTQ02.020	EMEA	UK	AS5551-N834G50Mn W7HP64ATGB1 MC UMACsk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551-P323G32Mn	LX.PTQ02.019	PA	USA	AS5551-P323G32Mn W7HP64ATUS1 MC UMACsk_3 2G+1G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_FRB1
AS5551-P524G50Mn	LX.PTQ02.018	PA	USA	AS5551-P524G50Mn W7HP64ATUS1 MC UMACsk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_FRB1
AS5551-P323G32Mn	LX.PTQ02.017	PA	USA	AS5551-P323G32Mn W7HP64ATUS1 MC UMACsk_3 2G+1G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_FRB3
AS5551-N332G16Mn	S2.PTQ0C.001	WW	WW	AS5551-N332G16Mn LINPUSAWW1 UMACsk_3 2*1G/160/BT/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551-N833G25Mn	LX.PTQ02.016	EMEA	UK	AS5551-N833G25Mn W7HP64ATGB1 MC UMACsk_3 2G+1G/250/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551-N834G32Mn	LX.PTQ02.015	EMEA	UK	AS5551-N834G32Mn W7HP64ATGB1 MC UMACsk_3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551-N833G32Mn	LX.PTQ02.014	EMEA	UK	AS5551-N833G32Mn W7HP64ATGB1 MC UMACsk_3 2G+1G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_EN11
AS5551-P324G25Mn	LX.PTQ02.013	AAP	Australia/New Zealand	AS5551-P324G25Mn W7HP64ATAU1 MC UMACsk_3 2*2G/250/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-P322G32Mn	LX.PTQ02.012	AAP	Australia/New Zealand	AS5551-P322G32Mn W7HP64ATAU1 MC UMACsk_3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-P322G25Mn	LX.PTQ02.009	AAP	Australia/New Zealand	AS5551-P322G25Mn W7HP64ATAU1 MC UMACsk_3 1*2G/250/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-P324G50Mn	LX.PTQ02.007	AAP	Australia/New Zealand	AS5551-P324G50Mn W7HP64ATAU1 MC UMACsk_3 2*2G/500_L/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-P324G32Mn	LX.PTQ02.006	AAP	Australia/New Zealand	AS5551-P324G32Mn W7HP64ATAU1 MC UMACsk_3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61

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Model	Acer Part No	RO	Country	Description
AS5551-N532G32Mn	LX.PTQ02.004	AAP	Australia/New Zealand	AS5551-N532G32Mn W7HP64ATAU1 MC UMACsk_3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-N534G32Mn	LX.PTQ02.003	AAP	Australia/New Zealand	AS5551-N534G32Mn W7HP64ATAU1 MC UMACsk_3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-N334G32Mn	LX.PTQ02.002	AAP	Australia/New Zealand	AS5551-N334G32Mn W7HP64ATAU1 MC UMACsk_3 2*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61
AS5551-N332G32Mn	LX.PTQ02.001	AAP	Australia/New Zealand	AS5551-N332G32Mn W7HP64ATAU1 MC UMACsk_3 1*2G/320/6L2.2/5R/ CB_bgn_1.3C_GEs_ES61

Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5551-P324G50Mn	LX.PWK02.011	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.010	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.009	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.008	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.007	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.006	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G32Mn	LX.PWK02.005	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P524G50Mn	LX.PWK02.004	ATP520	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.003	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G64Mn	LX.PWK02.001	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PWK02.002	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G50Mn	S2.PWK02.001	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P52_BR3G25M_brn	LX.PWP01.002	ATP520_BR	NLED15.6 WXGAG_BR	UMA	N	SO2GBIII13_BR
AS5551-1_BR3G25M_brn	LX.PWP01.001	AAP320_BR	NLED15.6 WXGAG_BR	UMA	N	SO2GBIII13_BR
AS5551-1_BR2G25M_brn	S2.PWP02.001	AAP320_BR	NLED15.6 WXGAG_BR	UMA	N	SO2GBIII13_BR
AS5551-P522G25Mn	LX.PTQ02.022	ATP520	NLED15.6 WXGAG	UMA	N	SO2GBIII10

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Model	Acer Part No	CPU	LCD	VGA Chip	VRAM 1	Memory 1
AS5551-N832G32Mn	LX.PTQ02.021	APN830	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G25Mi	LX.PTQ01.001	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P321G16Mn	LX.PTQ0C.002	AAP320	NLED15.6 WXGAG	UMA	N	SO1GBIII10
AS5551-P321G16Mn	LX.PTQ0C.001	AAP320	NLED15.6 WXGAG	UMA	N	SO1GBIII10
AS5551-N834G50Mn	LX.PTQ02.020	APN830	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PTQ02.019	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P524G50Mn	LX.PTQ02.018	ATP520	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P323G32Mn	LX.PTQ02.017	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N332G16Mn	S2.PTQ0C.001	AAN330	NLED15.6 WXGAG	UMA	N	SO1GBIII10
AS5551-N833G25Mn	LX.PTQ02.016	APN830	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N834G32Mn	LX.PTQ02.015	APN830	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N833G32Mn	LX.PTQ02.014	APN830	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G25Mn	LX.PTQ02.013	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P322G32Mn	LX.PTQ02.012	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P322G25Mn	LX.PTQ02.009	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G50Mn	LX.PTQ02.007	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-P324G32Mn	LX.PTQ02.006	AAP320	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N532G32Mn	LX.PTQ02.004	ATN530	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N534G32Mn	LX.PTQ02.003	ATN530	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N334G32Mn	LX.PTQ02.002	AAN330	NLED15.6 WXGAG	UMA	N	SO2GBIII10
AS5551-N332G32Mn	LX.PTQ02.001	AAN330	NLED15.6 WXGAG	UMA	N	SO2GBIII10

Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551-P324G50Mn	LX.PWK02.011	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551-P323G32Mn	LX.PWK02.010	SO1GBIII10	N	N	N320GB5.4 KS	N

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Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551-P323G32Mn	LX.PWK02.009	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P323G32Mn	LX.PWK02.008	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P323G32Mn	LX.PWK02.007	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P323G32Mn	LX.PWK02.006	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P324G32Mn	LX.PWK02.005	SO2GBIII10	N	N	N320GB5.4KS	N
AS5551-P524G50Mn	LX.PWK02.004	SO2GBIII10	N	N	N500GB5.4KS	N
AS5551-P323G32Mn	LX.PWK02.003	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P324G64Mn	LX.PWK02.001	SO2GBIII10	N	N	N640GB5.4KS	N
AS5551-P323G32Mn	LX.PWK02.002	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P324G50Mn	S2.PWK02.001	SO2GBIII10	N	N	N500GB5.4KS	N
AS5551-P52_BR3G25M_brn	LX.PWP01.002	SO1GBIII13_BR	N	N	N250GB5.4KS_BR	N
AS5551-1_BR3G25M_brn	LX.PWP01.001	SO1GBIII13_BR	N	N	N250GB5.4KS_BR	N
AS5551-1_BR2G25M_brn	S2.PWP02.001	N	N	N	N250GB5.4KS_BR	N
AS5551-P522G25Mn	LX.PTQ02.022	N	N	N	N250GB5.4KS	N
AS5551-N832G32Mn	LX.PTQ02.021	N	N	N	N320GB5.4KS	N
AS5551-P323G25Mi	LX.PTQ01.001	SO1GBIII10	N	N	N250GB5.4KS	N
AS5551-P321G16Mn	LX.PTQ0C.002	N	N	N	N160GB5.4KS	N
AS5551-P321G16Mn	LX.PTQ0C.001	N	N	N	N160GB5.4KS	N
AS5551-N834G50Mn	LX.PTQ02.020	SO2GBIII10	N	N	N500GB5.4KS	N
AS5551-P323G32Mn	LX.PTQ02.019	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-P524G50Mn	LX.PTQ02.018	SO2GBIII10	N	N	N500GB5.4KS	N
AS5551-P323G32Mn	LX.PTQ02.017	SO1GBIII10	N	N	N320GB5.4KS	N
AS5551-N332G16Mn	S2.PTQ0C.001	SO1GBIII10	N	N	N160GB5.4KS	N

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Model	Acer Part No	Memory 2	Memory 3	Memory 4	HDD 1(GB)	HDD 2(GB)
AS5551-N833G25Mn	LX.PTQ02.016	SO1GBIII10	N	N	N250GB5.4 KS	N
AS5551-N834G32Mn	LX.PTQ02.015	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551-N833G32Mn	LX.PTQ02.014	SO1GBIII10	N	N	N320GB5.4 KS	N
AS5551-P324G25Mn	LX.PTQ02.013	SO2GBIII10	N	N	N250GB5.4 KS	N
AS5551-P322G32Mn	LX.PTQ02.012	N	N	N	N320GB5.4 KS	N
AS5551-P322G25Mn	LX.PTQ02.009	N	N	N	N250GB5.4 KS	N
AS5551-P324G50Mn	LX.PTQ02.007	SO2GBIII10	N	N	N500GB5.4 KS	N
AS5551-P324G32Mn	LX.PTQ02.006	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551-N532G32Mn	LX.PTQ02.004	N	N	N	N320GB5.4 KS	N
AS5551-N534G32Mn	LX.PTQ02.003	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551-N334G32Mn	LX.PTQ02.002	SO2GBIII10	N	N	N320GB5.4 KS	N
AS5551-N332G32Mn	LX.PTQ02.001	N	N	N	N320GB5.4 KS	N

Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551-P324G50Mn	LX.PWK02.011	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.010	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.009	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.008	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.007	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.006	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G32Mn	LX.PWK02.005	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P524G50Mn	LX.PWK02.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PWK02.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G64Mn	LX.PWK02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN

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Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551-P323G32Mn	LX.PWK02.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G50Mn	S2.PWK02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P52_BR3G25M_brn	LX.PWP01.002	NSM8XS_BR	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-1_BR3G25M_brn	LX.PWP01.001	NSM8XS_BR	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-1_BR2G25M_brn	S2.PWP02.001	NSM8XS_BR	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P522G25Mn	LX.PTQ02.022	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N832G32Mn	LX.PTQ02.021	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G25Mi	LX.PTQ01.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi BG
AS5551-P321G16Mn	LX.PTQ0C.002	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P321G16Mn	LX.PTQ0C.001	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N834G50Mn	LX.PTQ02.020	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PTQ02.019	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P524G50Mn	LX.PTQ02.018	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P323G32Mn	LX.PTQ02.017	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N332G16Mn	S2.PTQ0C.001	NSM8XS	N	N	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N833G25Mn	LX.PTQ02.016	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N834G32Mn	LX.PTQ02.015	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N833G32Mn	LX.PTQ02.014	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G25Mn	LX.PTQ02.013	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P322G32Mn	LX.PTQ02.012	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P322G25Mn	LX.PTQ02.009	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G50Mn	LX.PTQ02.007	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-P324G32Mn	LX.PTQ02.006	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN

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Model	Acer Part No	ODD	Media Processor	Extra SW1	Card Reader	Wireless LAN1
AS5551-N532G32Mn	LX.PTQ02.004	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N534G32Mn	LX.PTQ02.003	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N334G32Mn	LX.PTQ02.002	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN
AS5551-N332G32Mn	LX.PTQ02.001	NSM8XS	N	McAfee	5 in 1-Build in	3rd WiFi 2x2 BGN

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Appendix B

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire 5251/5551G/5551 Compatibility Test Report released by the Acer Mobile System Testing Department.

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Microsoft® Windows® 7 Environment Test

Vendor	Type	Description
Adapter		
10001081 DELTA	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF
10001023 LITE-ON	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF
60002015 HIPRO	65W	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF
10001081 DELTA	65W_BR	Adapter DELTA 65W_BR 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF (Brazil)
10001023 LITE-ON	65W_BR	Adapter LITE-ON 65W_BR 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF (Brazil)
10001023 LITE-ON	65W_BR	Adapter LITE-ON 65W_BR 19V 1.7x5.5x11 Yellow PA-1650-22AB, LV5 LED LF (Brazil, by Palladium)
10001081 DELTA	90W	Adapter DELTA 90W 19V 1.7x5.5x11 Blue ADP-90CD DB A, LV5 LED LF
10001023 LITE-ON	90W	Adapter LITE-ON 90W 19V 1.7x5.5x11 Blue PA-1900-34AR, LV5 LED LF
60002015 HIPRO	90W	Adapter HIPRO 90W 19V 1.7x5.5x11 Blue HP-A0904A3 B1LF, LV5 LED LF
Battery		
60001921 SANYO	6CELL2.2	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AS10D31
10001063 SONY	6CELL2.2	Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41
60001535 PANASONIC	6CELL2.2	Battery PANASONIC AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D51
60013145 SAMSUNG SDI	6CELL2.2	Battery SAMSUNG AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D61
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D71
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D
60001921 SANYO	6CELL2.2_BR	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AS10D31, for Brazil
10001063 SONY	6CELL2.2_BR	Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41, for Brazil
60001535 PANASONIC	6CELL2.2_BR	Battery PANASONIC AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D51, for Brazil
60013145 SAMSUNG SDI	6CELL2.2_BR	Battery SAMSUNG AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D61, for Brazil
60002162 SIMPLO	6CELL2.2_BR	Battery SIMPLO AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D71, for Brazil
60002162 SIMPLO	6CELL2.2_BR	Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73, for Brazil
60002162 SIMPLO	6CELL2.2_BR	Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D, for Brazil

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Vendor	Type	Description
CPU		
22554573 AMD	AAN330	CPU AMD AthlonII N330 2.3G 1M 35W Dual-Core
22554573 AMD	AAP320	CPU AMD AthlonII P320 2.1G 1M 25W Dual-Core
60002168 AMDISS	AAP320_BR	CPU AMD AthlonII P320 2.1G 1M 25W 2C (Brazil)
60002168 AMDISS	AMDV120	CPU AMD - V120 2.2G 512K 25W VMV120SGR12GM
22554573 AMD	APN830	CPU AMD PhenomII N830 2.1G 35W 1.5M L2, Triple-Core
22554573 AMD	APN930	CPU AMD PhenomII N930 2.0G 2M 35W Quad-Core
22554573 AMD	ATN530	CPU AMD TurionII N530 2.5G 2M 35W Dual-Core
22554573 AMD	ATP520	CPU AMD TurionII P520 2.3G 2M 25W Dual-Core
60002168 AMDISS	ATP520_BR	CPU AMD TurionII P520 2.3G 2M 25W 2C (Brazil)
HDD		
60002036 SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS Wyatt SATA LF F/W:0001SDM1
60002036 SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1
60001922 TOSHIBA DIGI	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J
60002005 HGST SG	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
60001994 WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0 , WD, ML320S SATA 8MB LF F/W:01.01A01
60002005 HGST SG	N160GB5.4KS_BR	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300, HGST, Panther B, 250G/P SATA 8MB LF F/W:C60F
60001994 WD	N160GB5.4KS_BR	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0,ML320S SATA 8MB LF F/W:01.01A01
60002215 SAMSUNG	N160GB5.4KS_BR	HDD SAMSUNG 2.5" 5400rpm 160GB M5, HM160HI SATA LF F/W:HH100-08 (Brazil)
60002215 SAMSUNG	N160GB5.4KS_BR	HDD SAMSUNG 2.5" 5400rpm 160GB HM161GI, M7E, 320G/P SATA 8MB LF F/W:2AJ0002
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS Wyatt SATA LF F/W:0001SDM1
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1
60001922 TOSHIBA DIGI	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J
60002005 HGST SG	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
60001994 WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.
60002005 HGST SG	N250GB5.4KS_BR	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300, Panther B with better imbalance SATA 8MB LF F/W:C60F
60001994 WD	N250GB5.4KS_BR	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, ML320S, WD SATA 8MB LF F/W:01.01A01

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Vendor	Type	Description
60002215 SAMSUNG	N250GB5.4KS_BR	HDD SAMSUNG 2.5" 5400rpm 250GB M7, HM250HI SATA LF F/W:2AC101-C4 (Brazil)
60002215 SAMSUNG	N250GB5.4KS_BR	HDD SAMSUNG 2.5" 5400rpm 250GB HM251HI, M7E, 320G/P SATA 8MB LF F/W:2AJ0002
60002036 SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS Wyatt SATA LF F/W:0001SDM1
60002036 SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320325AS, 9HH13E-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1
60001922 TOSHIBA DIGI	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS ,MK3265GSX SATA 8MB LF F/W:GJ002J
60002005 HGST SG	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
60001994 WD	N320GB5.4KS	HDD WD 2.5" 5400rpm 320GB WD3200BEVT-22A23T0,ML320S,WD SATA 8MB LF F/W:01.01A01
60002005 HGST SG	N320GB5.4KS_BR	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300, PantherB with better imbalance SATA 8MB LF F/W:C60F
60002215 SAMSUNG	N320GB5.4KS_BR	HDD SAMSUNG 2.5" 5400rpm 320GB HM321HI, M7E, 320G/P SATA 8MB LF F/W:2AJ0002
60002036 SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS Wyatt SATA LF F/W:0001SDM1
60002036 SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1
60001922 TOSHIBA DIGI	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J
60002005 HGST SG	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm
60001994 WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01
60001994 WD	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01
LCD		
60003316 AUO	N15.6WXGAG	CCFL LCD AUO 15.6"W WXGA Glare B156XW01-V2 LF 220nit 8ms 500:1
60002215 SAMSUNG	N15.6WXGAG	CCFL LCD SAMSUNG 15.6"W WXGA Glare LTN156AT01-A01 LF 220nit 8ms 600:1
60003316 AUO	NLED15.6WXGAG	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (power saving)
60002215 SAMSUNG	NLED15.6WXGAG	LED LCD SAMSUNG 15.6"W WXGA Glare LTN156AT02-A04 LF 220nit 8ms 500:1
60003089 LG	NLED15.6WXGAG	LED LCD LPL 15.6"W WXGA Glare LP156WH2-TLE1 LF 220nit 8ms 400:1
60003089 LG	NLED15.6WXGAG	LED LCD LPL 15.6"W WXGA Glare LP156WH2-TLEA LF 220nit 16ms 500:1 (color engine)
60001927 CPT	NLED15.6WXGAG	LED LCD CPT 15.6"W WXGA Glare CLAA156WA11A LF 220nit 8ms 600:1

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Vendor	Type	Description
10001038 CMO	NLED15.6WXGAG	LED LCD CMO 15.6"W WXGA Glare N156B6-L0B LF 220nit 8ms 650:1
10001022 INNOLUX	NLED15.6WXGAG	LED LCD INNOLUX 15.6"W WXGA Glare BT156GW01 V2 LF 220nit 8ms 600:1
60003316 AUO	NLED15.6WXGAG_BR	LED LCD AUO 15.6"W WXGA Glare B156XW02 V2 LF 200nit 8ms 500:1 (Brazil) (power saving)
60002215 SAMSUNG	NLED15.6WXGAG_BR	LED LCD SAMSUNG 15.6"W WXGA Glare LTN156AT02-A04 LF 220nit 8ms 500:1 (Brazil)
MEM		
16081942 MICRON	SO1GBIII10	Memory MICRON SO-DIMM DDRIII 1066 1GB MT8JSF12864HZ-1G1F1 LF 128*8 0.065um
60004668 ELPIDA	SO1GBIII10	Memory ELPIDA SO-DIMM DDRIII 1066 1GB EBJ10UE8BDS0-AE-F LF 128*8 0.065um
60002215 SAMSUNG	SO1GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 1GB M471B2873EH1-CF8 LF 64*16 0.055um
60002045 HYNIX	SO1GBIII10	Memory HYNIX SO-DIMM DDRIII 1066 1GB HMT112S6BFR6C-G7 N0 LF 64*16 0.055um
60024207 KINGSTON	SO1GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um
60004668 ELPIDA	SO1GBIII13	Memory ELPIDA SO-DIMM DDRIII 1333 1GB EBJ10UE8BDS0-DJ-F LF 128*8 0.065um
60002215 SAMSUNG	SO1GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm
60002045 HYNIX	SO1GBIII13	Memory HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055um
60002215 SAMSUNG	SO1GBIII13_BR	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm Brazil
60002045 HYNIX	SO1GBIII13_BR	Memory HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055um Brazil
16081942 MICRON	SO2GBIII10	Memory MICRON SO-DIMM DDRIII 1066 2GB MT16JSF25664HZ-1G1F1 LF 128*8 0.065um
60004668 ELPIDA	SO2GBIII10	Memory ELPIDA SO-DIMM DDRIII 1066 2GB EBJ21UE8BDS0-AE-F LF 128*8 0.065um
60002215 SAMSUNG	SO2GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 2GB M471B5673EH1-CF8 LF 128*8 0.055um
60002045 HYNIX	SO2GBIII10	Memory HYNIX SO-DIMM DDRIII 1066 2GB HMT125S6BFR8C-G7 N0 LF 128*8 0.055um
60001993 NANYA	SO2GBIII13	Memory NANYA SO-DIMM DDRIII 1333 2GB NT2GC64B8HC0NS-CG LF 128*8 0.065um
60024207 KINGSTON	SO2GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um
60004668 ELPIDA	SO2GBIII13	Memory ELPIDA SO-DIMM DDRIII 1333 2GB EBJ21UE8BDS0-DJ-F LF 128*8 0.065um
60002215 SAMSUNG	SO2GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5673FH0-CH9 LF 128*8 46nm
60004668 ELPIDA	SO2GBIII13_BR	Memory ELPIDA SO-DIMM DDRIII 1333 2GB EBJ21UE8BDS0-DJ-F LF 128*8 0.065um (Brazil)
60002215 SAMSUNG	SO2GBIII13_BR	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5673FH0-CH9 LF 128*8 46nm (Brazil)

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Vendor	Type	Description
60002045 HYNIX	SO2GBIII13_BR	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT125S6TFR8C-H9 LF 128*8 0.055um (Brazil)
60004668 ELPIDA	SO4GBIII10	Memory NONE SO-DIMM DDRIII 1066 4GB dummy P/N LF
ODD		
610105 HLDS	NBDCB4XS	ODD HLDS BD COMBO 12.7mm Tray DL 4X CT21N LF W/O bezel 1.00 SATA (HF + Windows 7)
10001063 SONY	NBDCB4XS	ODD SONY BD COMBO 12.7mm Tray DL 4X BC-5500H LF W/O bezel SATA (HF + Windows 7)
10001070 PHILIPS	NBDCB4XS	ODD PLDS BD COMBO 12.7mm Tray DL 4X DS-4E1S LF W/O bezel SATA (Windows 7)
60001922 TOSHIBA DIGI	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7)
60001535 PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ890A LF W/O bezel SATA (HF + Windows 7)
610105 HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7)
10001063 SONY	NSM8XS	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)
10001070 PHILIPS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A4SH LF W/O bezel SATA (HF + Windows 7)
60001922 TOSHIBA DIGI	NSM8XS_BR	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633C LF W/O bezel SATA (HF + Windows 7) (Brazel)
610105 HLDS	NSM8XS_BR	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT30N LF W/O bezel SATA (HF + Windows 7) (Brazel)
VGA Chip		
22554573 AMD	MADISON_PRO	AMD MADISON_PRO 40nm 29mm*29mm M2 package
22554573 AMD	PARK_XT	AMD PARK_XT 40nm 29mm*29mm M2 package
22554573 AMD	UMA	UMA (AMD)
VRAM		
10000981 MISC	1G-DDR3 (64*16*8)	1G-DDR3 64*16*8
10000981 MISC	512M-DDR3 (64*16*4)	512M-DDR3 64*16*4
60002215 SAMSUNG	VR1GbIII8	VRAM SAMSUNG Graphic DDRIII 800 1Gb K4W1G1646E-HC12 LF
60002045 HYNIX	VR1GbIII8	VRAM HYNIX Graphic DDRIII 800 1Gb H5TQ1G63BFR-12C LF
NB Chipset		
22554573 AMD	AMDRS880M	AMD RS880M w/ HDCP EEPROM
SB Chipset		
22554573 AMD	AMDSB820M	AMD SB820M
Keyboard		
60004864 DARFON	AC7T_A10B	Keyboard ACER AC7T_A10B AC7T Internal 17 Standard Black NONE Y2010 Acer Texture
LAN		
610112 BROADCOM	BCM57780	Broadcom BCM57780

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Vendor	Type	Description
WiFi Antenna		
10000105 WNC	PIFA	PIFA
Audio Codec		
10004786 REALTEK	ALC272X	Realtek Audio Codec ALC272X
A cover		
10000981 MISC	Black IMR	Black IMR
10000981 MISC	Silver IMR	A cover Silver IMR (Mat+Pattern)
B cover		
9999995 ONE TIME VENDER	Mirror	Mirror
9999995 ONE TIME VENDER	Mirror w/Camera	Mirror w/Camera
Bluetooth		
23707801 FOXCONN TW	BT 2.1	Foxconn Bluetooth BRM 2046 BT2.1 (T60H928.33) f/ w:861
23707801 FOXCONN TW	BT 2.1	Foxconn Bluetooth ATH AR3011
23707801 FOXCONN TW	BT 2.1	Foxconn Bluetooth BRM 2070 (T77H114.01)
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2046 BT3.0 (T60H928.33) f/ w:861
10001018 HON HAI	BT 3.0	Foxconn Bluetooth ATH AR3011 (BT3.0)
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0
Camera		
10001044 CHICONY	1.3M	Chicony 1.3M CH9665SN (CNF9157)
PLM00012 Suyin	1.3M	Suyin 1.3M SY9665SN
10001023 LITE-ON	1.3M	Liteon 1.3M LT9665AL (09P2SF119)
10001023 LITE-ON	1.3M	Liteon 1.3M LT6AASP(09P2BF127)
Card Reader		
PLM00014 ODM	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD
Software		
10000981 MISC	McAfee	Antivirus application McAfee
Wireless LAN		
23707801 FOXCONN TW	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Atheros HB93 2x2 BGN (HM)
PLM00010 QMI	3rd WiFi 2x2 BGN	QMI Wireless LAN Atheros HB93 2x2 BGN (HM) EM306
23707801 FOXCONN TW	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Broadcomm 43225 2x2 BGN (HM) T77H103.00
23707801 FOXCONN TW	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Atheros HB97 2x2 BGN (HM)
10001023 LITE-ON	3rd WiFi 2x2 BGN	Liteon Wireless LAN Atheris HB97 2x2 BGN (HM) WN6603AH
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95 1x1 BG (HM)

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Vendor	Type	Description
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wireless LAN Broadcom 4312H BG (HM)
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10

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Online Support Information

This section describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

In the Technical Information section you can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- User's manuals
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all your technical queries.

We are always looking for ways to optimize and improve our services, so if you have any suggestions or comments, please do not hesitate to communicate these to us.

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